Service Manual

Volume 1

Sec. 1 Operating Instructions

Sec. 2 Disassembly Procedures

Sec.3 Block Diagrams & Schematic Diagrams

Sec. 4 Exploded Views & Replacement Parts Lists

Sec. 5 VW-AD3E

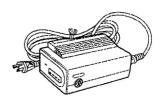
Mini DY

Digital Camera Recorder

AG-EZ30E

AC Adaptor

VW-AD3E



Model: VW-AD3E

ITEM	SPECIFICATION	ITEM	SPECITICATION
POWER	Source: Battery Pack; 7.2V DC AC Adaptor; 7.9V DC Consumption:	VIDEO	VIDEO OUTPUT LEVEL: 1.0 Vp-p, 75 Ω S-VIDEO OUTPUT LEVEL; Y: 1.0 Vp-p 75 Ω C: 0.3 Vp-p 75 Ω
	During Camera Recording Using The LCD; 7.9W During Camera Recording Using The Viewfinder; 6.7W	AUDIO	RECORDING FORMAT: Digital PCM Stereo; 16 bit (48 kHz/2 ch) 12 bit (32 kHz/4 ch) OUTPUT LEVEL: 316 mV, 600 Ω
RECORDING FORMAT	Digital Video SD Format	DIGITAL STILL PICTURE	Digital Still Picture Output, Control Signal Input/Output (Transfer rate: max. 115 kbps) DV Output Terminals
TAPE FORMAT	Mini DV Cassette Tape (Tape width 6.35mm) SP mode: 18.812 mm/s	DIGITAL INTERFACE	(Compliant with IEEE 1394, 4-pin)
TAPE SPEED	LP mode: 12.555 mm/s Record/Playback Time	OPERATING TEMPERATURE	0 ~ 40°C
	SP mode: 60 min. with DVM60 LP mode: 90 min. with DVM60	OPERATING HUMIDITY	10 ~ 80%
· · · · · · · · · · · · · · · · · · ·	PICK-UP ELEMENT:	WEIGHT	Approx. 690g (without Battery Pack)
	CCD (Change Coupled Device)	DIMENSIONS	Approx. 80 (W) × 105 (H) × 192 (D) mm
CAMERA	STANDARD ILLUMINATION: 1,400 lux MINIMUM REQUIRED ILLMINATION: 1 lux LENS: 12:1 Wide-angle Power Zoom Lens (Optical capability) F1.6 Focal Length: 4.0-48mm Digital AI Auto Focus/Auto Iris Filter Diameter: 43.0 mm IMAGE SENSOR: 1/4 inch CCD Image Sensor ×3 (RGB) VIEWFINDER: 0.5 inch Colour Electronic Viewfinder 2.5-inch Colour LCD Monitor RECORDING FORMAT: Digital Component	STANDARD ACCESSORIES	1 pc. AC Adaptor 1 pc. Battery Pack 1 pc. S-VIDEO Cable 1 pc. DC Input Cable 1 pc. AC Cable 1 pc. AV Cable 1 pc. Remote Controller 1 pc. Remote Controller 1 pc. Battery for Remote Controller 1 pc. Output Terminal Box 1 pc. Shoulder Strap 1 pc. 21 pin Adaptor 1 pc. Cassette Tape
VIDEO	TELEVISION SYSTEM: CCIR; 625 Lines, 50 Fields PAL Colour Signal		1 pc. Filter Kit 1 pc. Wide Conversion Lens 1 pc. Cassette Adaptor

Model: AG-EZ30E

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

Panasonic

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△WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.

Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

INTRODUCTION

This Service Manual Volume 1 contains technical information such as Operating Instructions, Disassembly Procedures, Block Diagrams, Schematic Diagrams & Circuit Board Diagrams, Exploded Views & Parts Lists and AC Adaptor VW-AD3E sections which service personnel to understand and service the Panasonic DV Camera Recorder model AG-EZ30E and AC Adapter model VW-AD3E.

For other technical information such as Service Information, Maintenance & Mechanical Adjustment Procedures, Electrical Adjustment Procedures, please refer to the Service Manual AG-EZ30E Volume 2.

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INTRODUCTION

Caution for AC CORD (VJA0940 type)

Information for Your Safety

IMPORTANT

YOUR ATTENTION IS DRAWN TO THE FACT THAT RECORDING OF PRE-RECORDED TAPES OR DISCS OR OTHER PUBLISHED OR BROADCAST MATERIAL MAY INFRINGE COPYRIGHT LAWS.

WARNING

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

FOR YOUR SAFETY

DO NOT REMOVE THE OUTER COVER.

To prevent electric shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

Caution for AC Mains Lead

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three-pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amperes and it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark 🖚 or the BSI mark 😽 on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFETY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt, please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral Brown: Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

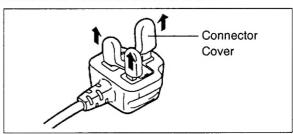
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol $\frac{1}{2}$.

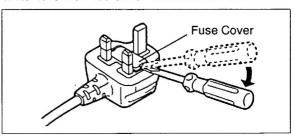
Before use

Remove the Connector Cover as follows.

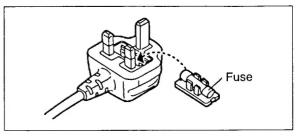


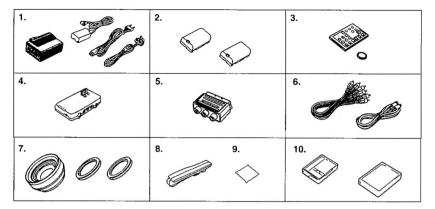
How to replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



2. Replace the fuse and attach the Fuse cover.





Standard Accessories

1. AC Adaptor (→ 16, 18)

To supply power to the Movie Camera.
To charge the Battery.
DC Input Cable and AC Mains Cable

DC Input Cable and AC Mains Cable (→ 16, 18)

To connect the AC Adaptor to the Movie Camera and to an AC Mains socket.

2. Battery Pack (→ 18)

To supply the Movie Camera with power.

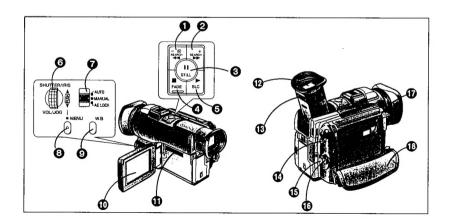
3. Remote Controller and Button-Type Battery (→ 100, 106)

4. Output Terminal Box [AV ONE TOUCH STATION] (→ 54, 56, 110)

Equipped with AV Sockets, Edit Socket, Digital Still Picture Terminal and Headphones Socket.

- 5.21-pin Adaptor (+ 54, 112, 114, 116)
- 6. AV Cable (→ 54, 112, 114, 116) S-Video Cable (→ 54, 112, 114, 116)
- 7. Filter Kit/Wide Conversion Lens (→ 184)
- 8. Shoulder Strap (→ 28)
- 9. Cleaning Tissue
 To clean the Lens and the LCD Monitor.
- 10. Cassette/Cassette Adaptor (→ 186)

-8-

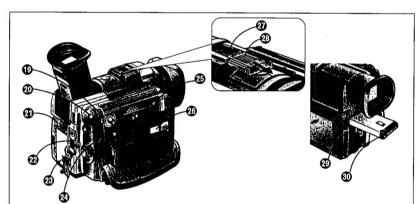


Controls and Components

- Reverse Search Button / Rewind/Review Button / Recording Check Button [◄◄]
 (→ 32, 46, 48, 58)
- ② Forward Search Button / Fast Forward/ Cue Button [▶▶] (→ 48, 58)
- Still Button / Pause Button [II] (→ 44, 52)
- Fade Button / Stop Button [■] (→ 46, 68)
- Backlight Button / Play Button [▶]
 (→ 32, 46)
- 6 Multi-Function [PUSH] Dial (→ 42, 44, 46, 52, 60, 70, 76, 86, 88, 126, 134, 138)
- Mode Selector Switch [AUTO / MANUAL / AE LOCK]
 (→ 30, 36, 70, 82, 84, 86, 88, 90)

- Menu Button [MENU] (→ 42, 44, 60, 70, 76, 78, 80, 126, 134)
- White Balance Button [W.B] (→ 82, 84)
- LCD Monitor (→ 26)
- ⑤ Speaker (→ 46)
- ⊕ Finder (→ 26)
- Eyepiece Corrector Knob (→ 26)
- ◆ VCR (Playback) Mode / Camera (Recording) Mode Button (and Lamps) (→ 30, 46)
- Recording Start/Stop Button (→ 30)
- Power Switch [POWER ON/OFF] (→ 26, 30)
- Cassette Compartment Lock Button
 [△ LOCK] (→ 22)
- Grip Belt (→ 28)

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- ② Zoom Lever [W/T] (→ 38)
- Photoshot Button [PHOTO SHOT] (→ 40)
- ② LCD Monitor Open Lever [PUSH OPEN] (→ 26)
- DV Terminal [DV]

To output digital signals.

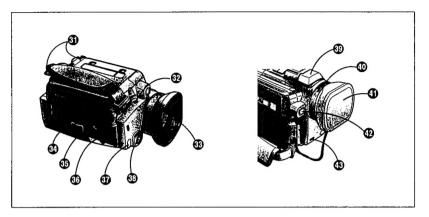
Connect it to digital video equipment with IEEE1394compatible DV input terminal.

- ◆This terminal cannot be used to input digital signals into this Movie Camera.
- Battery Compartment Cover Open Lever [BATTERY] (→ 18)

- ② Cassette Eject Button [▲ EJECT] (→ 22)
- ⊕ Cassette Compartment Window (→ 22)
- Accessory Shoe To attach the Stereo Zoom Microphone (optional).
- Shoe Cover When using the Shoe, remove the Shoe Cover by sliding it in the direction of the arrow.
- Battery Eject Lever (→ 18)
- Over for DC Input Cable Slot (→ 16)

SECTION 1
GENERAL DESCRIPTIONS





- Shoulder Strap Holders (→ 28)
- Microphone Socket [MIC]

To connect an external microphone or audio equipment. (Connecting to this socket deactivates the built-in microphone.)

Socket: Impedance: Type: M3-type Less than 4.7 kohm

Stereo (When connecting a mono microphone, no

mono microphone, no sound is recorded on the right channel.) Approx. -70 dB

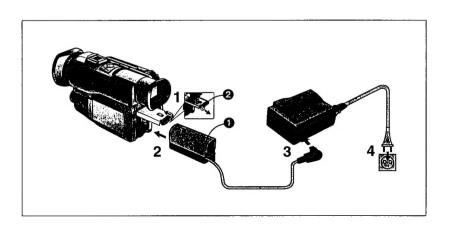
Sensitivity: Power Source for Microphone:

Not available

Lens

- Support Leg (→ 46)
- Tripod Receptacle
 To mount the Movie Camera on an optional tripod.
- Multi Terminal [MULTI] (→ 54, 56, 110)
- ⊕ Remote Control Sensor (→ 108)
- ⑤ Focus Button [FOCUS] (→ 36)
- Microphone (built-in, stereo)
- Manual Focus Ring (→ 36)
- ① Lens Cap (→ 56, 84)
- White Balance Sensor (→ 158)
- Recording Lamp (→ 30)

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The 3 Types of Power Supplies

- AC Adaptor (supplied) to supply power from an AC mains socket
- Car Battery Charger (optional) to supply power from a Cigarette Lighter Socket
- 3) Battery (supplied) (→ 18)
- Supplying Power from an AC Mains Socket
- Slide the [BATTERY] Lever upward to open the Battery Compartment Cover.
- 2 Insert the battery-shaped connector of the DC Input Cable ♠ into the Movie Camera. Pull back the Cover for the DC Input Cable Slot ♠ and lift it. Pass the DC Input Cable through the slot and close the Battery Compartment Cover.
- 3 Connect the other end of the DC Input Cable to the AC Adaptor.

- 4 Connect the AC Mains Cable to an AC mains socket.
- Before disconnecting the AC Mains Cable, set the [POWER ON/OFF] Switch to [OFF].
- If you use the Movie Camera for a long time, it becomes warm. However, this is normal.

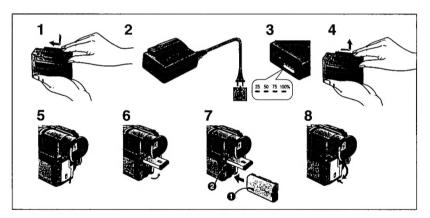
Supplying Power from the Cigarette Lighter Socket in a Car

You can use the optional Car Battery Charger VW-KBD1E to supply the Movie Camera with power from the Cigarette Lighter Socket in a car. In addition, you can also use it to charge the Movie

- Camera's Battery.

 After use, be sure to disconnect the Car Battery
 Charger from the Cigarette Lighter Socket.
- Be sure to start the car engine before you connect the Car Battery Charger, otherwise the fuse may blow.
- Use the DC Input Cable supplied with the Movie Camera for connecting, not the one supplied with the VW-KBD1E.

-16-



■ Supplying Power with the Battery

The Battery was only minimally charged before shipping. Therefore, fully charge it before you use it for the first time.

- 1 Place the Battery on the AC Adaptor as shown above and slide it horizontally until it stops.
- 2 Connect the AC Mains Cable to the AC Adaptor and an AC mains socket.
- 3 When all four Charge Lamps on the AC Adaptor are lit, charging is finished.
- 4 Remove the Battery by sliding it in the opposite direction of Step 1 above.

 Also disconnect the AC Mains Cable.
- 5 Slide the [BATTERY] Lever.

- 6 Open the Battery Compartment Cover.
- 7 Insert the Battery with pointing
- 8 Close the Battery Compartment Cover so that it locks with a click.

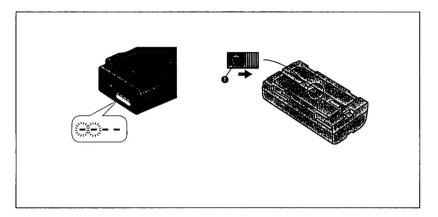
Removing the Battery
Open the Battery Compartment Cover and push the
Battery Eject Lever 2.

- Hold your hand over the Battery Compartment to prevent the Battery from dropping.
- Before removing the Battery, set the [POWER ON/OFF] Switch to [OFF].

Caution

Be sure to insert the Battery with the [A] mark pointing into the Movie Camera. If you insert it with the mark pointing outside, it could damage the Movie Camera.

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Charging Time and Maximum Time for Continuous Recording

Battery No.	Charging Time	Max. Continuous Recording Time
Supplied 80 min.		85 min. (70 min.)
VW-VBD1E 80 min.		85 min. (70 min.)
VW-VBD2E	160 min.	160 min. (125 min.)
CGR-B/814	320 min.	360 min. (270 min.)

(The times shown in the above chart are approximations. The figures in parentheses show the recording time when using the LCD Monitor.)

The times listed above for your information indicate the duration of recording performed at an ambient temperature of 20°C and 60% relative humidity. The charging time may be longer when you charge the Battery at higher or lower temperature.

- During use and charging, the Battery becomes warm.
 The Movie Camera, too, becomes warm during use.
- When you repeatedly stop and restart recording, the recording time per Battery is shorter than listed above.

 If you do not use the Battery for a long time, please read the Precautions for Storage (→ 148).

When the Charge Lamps Flash

When the internal temperature of the Battery or the ambient temperature is extremely high or low, the Charge Lamps on the AC Adaptor flash.

When the Charge Lamps flash slowly

The Battery is being charged, but charging takes longer than parmally

When the Charge Lamps flash in pairs

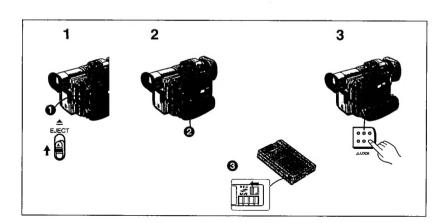
Charging is not possible. When the temperature becomes appropriate for charging, the Charge Lamps stop flashing and charging starts.

Using the Charge Confirmation Marker

You can use this marker to easily distinguish between charged and discharged Batteries.

For example, slide the knob so that the red dot (•) • is visible after the charging is completed.

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Inserting the Cassette

- 1 Slide the [▲ EJECT] Lever upward to open the Cassette Compartment.
- 2 Insert the cassette.
 Insert the cassette with its window in position 2.
- 3 Close the Cassette Compartment and press the [△ LOCK] Button to lock the Cassette Compartment.
- If the Movie Camera is supplied with power, above operation step 1 can be operated without turning on the Movie Camera.
- When opening or closing the Cassette Compartment, push down the Grip Belt so that it does not obstruct the opening and closing of the Cassette Compartment.

Otherwise the Grip Belt may prevent the Cassette Compartment from opening completely, or it may get caught under the Cassette Compartment Cover and prevent it from closing properly.

- When inserting the cassette, make sure it faces in the right direction and then push in straight down until it stons
- When you insert a cassette onto which you have recorded before, use the Carnera Search Function
 (→ 58) to search for the position from which you want to continue recording.
- When you insert a new cassette, rewind the tape to the beginning before starting to record.

Preventing Accidental Erasure of Recordings
Opening the cassatte's erasure prevention slider **⑤**(sliding it in the direction of the [SAVE] arrow) prevents
recording. To record again, close the erasure prevention
slider (slide it in the direction of the [REC] arrow).

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■ LP Mode

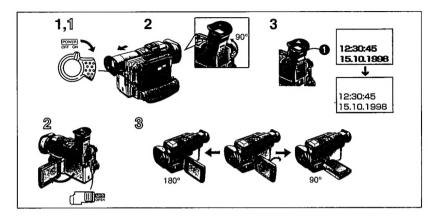
The desired recording speed can be selected with [REC SPEED] on the Menu. (→ 126-130)

If you select the [LP] Mode, the possible recording time is 1.5 times as long as in the SP Mode. Recording in the LP mode does not deteriorate the picture quality. However, the playback picture may contain mosaic-like patterns and certain functions may be restricted.

 In the following cases, mosaic-like patterns may appear in the playback picture or the picture may not be played back correctly:

- When a cassette recorded in the LP Mode on this Movie Camera is played back on other digital video equipment.
- When a cassette recorded in the LP Mode on other digital video equipment is played back on this Movie Camera.
- When a cassette recorded in the LP Mode on this Movie Camera is played back on digital video equipment not featuring the LP Mode.
- In the Slow Motion or Still Advance Playback Mode.
 (→ 50, 52)
- When using the Camera Search Function. (→ 58)
- As the recording track width in the LP Mode is smaller than the head width, recording new sound onto an already recorded cassette (audio dubbing) (→ 96) is impossible.

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Using the Finder

Before using the Finder, adjust it to your eyesight so that the indications in the Finder are clear and easy to read.

- 1 Set the [POWER ON/OFF] Switch to [ON].
- 2 Slide the Finder backward.

 The angle of the Finder can be adjusted upward.

 However, be sure to slide the Finder backward until it stops, before turning it upward.
- 3 Adjust by sliding the Eyepiece Corrector Knob ①. You can adjust the brightness of the Finder on the Menu. (→ 126-130, 138)

Using the LCD Monitor

It is also possible to record while viewing the picture on the opened LCD Monitor.

Set the [POWER ON/OFF] Switch to [ON].

Push the [PUSH OPEN] Lever and turn out the LCD Monitor approximately 90° in the direction of the arrow. The Finder turns off.

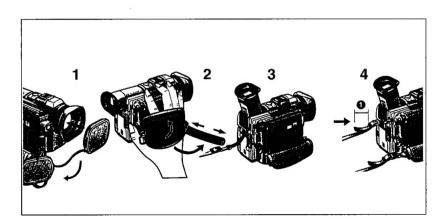
Adjusting the Angle

- Adjust the angle of the LCD Monitor according to the desired recording angle.
 - ◆ The LCD Monitor rotates upward a maximum of 180° and downward a maximum of 90° from its normal vertical position. Trying to forcefully rotate it beyond this range could seriously damage the Movie Camera.
 - You can adjust the colour level and brightness of the LCD Monitor on the Menu. (→ 126-130, 138)

Closing the LCD Monitor

Push the LCD Monitor close until the [PUSH OPEN] Lever locks with a click.

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Handling the Lens Cap

Before you start recording, remove the Lens Cap.

1 You can hook the removed Lens Cap onto the Grip Belt.
When not actually recording, attach the Lens Cap to

When not actually recording, attach the Lens Cap to the Lens to protect it.

Adjusting the Grip Belt

You can adjust the Grip Belt to the size of your hand.

2 Open the Grip Belt Cover and adjust the length of the Grip Belt.

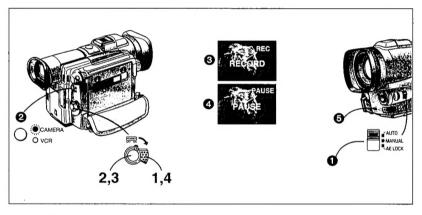
Attaching the Shoulder Strap

Before you go recording outside, we recommend that you attach the Shoulder Strap to prevent the Movie Camera from dropping accidentally.

- 3 Pull the end of the Shoulder Strap through the Shoulder Strap Holders on the Movie Camera.
- 4 Fold the end of the Shoulder Strap back and pull it through the Shoulder Strap Length Adjuster.

Pull it out more than 2 cm from the Shoulder Strap Length Adjuster so that it cannot slip off.

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Recording

When the Mode Selector is set to [AUTO] ①, you can simply turn on the Movie Camera and press the Start/Stop Button to start recording, and the focus and white balance are adjusted automatically.

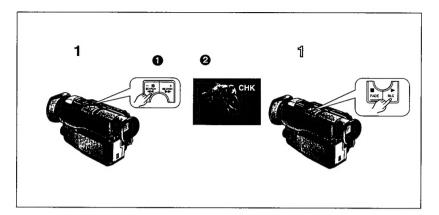
- Depending on the light source and recording situation, correct automatic focusing and white balance adjustment may not be possible. In such cases, adjust them manually.
- Focus: (→ 36); White Balance: (→ 82, 84)
- 1 Set the [POWER ON/OFF] Switch to [ON].

The [CAMERA] Lamp lights. 2

- 3 To pause recording:
 Press the Start/Stop Button again.
 The [PAUSE] Indication appears.
- 4 To finish recording: Set the [POWER ON/OFF] Switch to [OFF].
- If you leave the Movie Camera in the Recording Pause Mode for more than 6 minutes, it automatically switches off to protect the tape and to conserve battery power. To resume recording from this condition, set the [POWER ON/OFF]
 Switch to [DFF] and then to [DNI again.

Recording Lamp

The Recording Lamp **⑤** lights during recording to indicate that recording is being performed. If you select [NEXT MENU] on the Menu and then set [REC LAMP] to [OFF], the Recording Lamp does not light. (◆ 126-130)



Checking If the Picture Is Recorded (Recording Check)

To play back the final few seconds of the last recorded scene in the Recording Pause Mode.

Press the Reverse Search Button [◄◄] briefly in the Recording Pause Mode.

The [CHK] Indication ② appears.

After checking, the Movie Camera returns to the Recording Pause Mode.

 For Recording Check, the Movie Camera must be in the same mode (SP or LP) as used for recording, otherwise the playback picture is distorted.

Recording Backlit Scenes (Backlight Compensation)

To prevent the backlit subject from being recorded very dark.

(Backlight means that the light falls on the subject from behind, i.e. the subject is between the light source and the Movie Camera.)

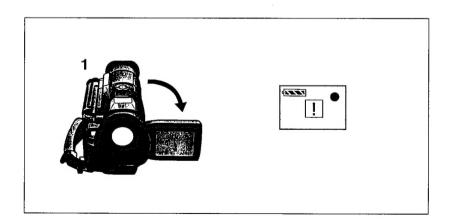
Keep the Backlight Button [▶] pressed.

The backlight is being compensated as long as you keep the Button pressed, and the subject is recorded more brightly.

(The picture brightens up as a whole.)

Returning to Normal Recording Release the Backlight Button [▶].

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Recording Yourself

(Recording with the LCD Monitor Facing Forward)

To record yourself while viewing the picture on the LCD Monitor or to show the persons in front of the Movie Camera the picture being recorded.

1 Open the LCD Monitor and turn it so that it faces forward (lens side).

Opening the LCD Monitor automatically turns off the Finder. However, when you turn the LCD Monitor forward, the picture also appears in the Finder. This lets you aim the Movie Camera and view the picture in the Finder, while the persons in front of the Movie Camera can check the picture on the LCD Monitor during recording.

Mirror Mode

When recording yourself with the LCD Monitor facing forward, the picture as it is being recorded might look unusual too you. If you prefer seeing yourself on the LCD Monitor the way you see yourself in a mirror, select the Mirror Mode:

Selecting [NEXT MENU] on the Menu and then setting [SELFSHOOT] to [MIRROR] reverses the picture on the LCD Monitor and shows it as a mirror-image.

However, even if you have selected the Mirror Mode, the picture is recorded in the normal way.

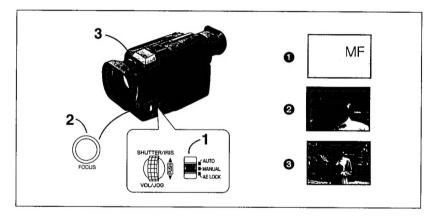
 In the Mirror Mode, only the following indications are displayed.

: Recording
 : Recording Pause

: Remaining Battery Power

When the General Warning/Alarm Indication [1] appears, turn the LCD Monitor backward so that you can confirm the actual Warning/Alarm Indication.

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Manually Focusing on the Subject (Manual Focus)

To adjust the focus manually for subjects and recording situations for which automatic focusing is not precise.

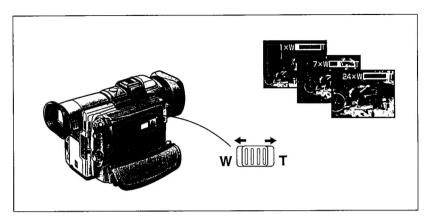
- 1 Set the Mode Selector Switch to [MANUAL].
- The [MNL] Indication appers.
- 2 Press the [FOCUS] Button to make the [MF] Indication appear.

3 Turn the Focus Ring on the Lens to adjust the focus.

Changing Back to Automatic Focusing Keep the [FOCUS] Bottun pressed until the [MF] Indication disappears.

Hint for Manual Focus Adjustment

◆ If you adjust the focus in the wide-angle setting, the subject may go out of focus when you enlarge it. Therefore, enlarge the subject ❷ before you adjust the focus, so that the picture remains focused when you zoom out ④.



Enlarging Your Subject or Widening the Recording Angle (Zooming In/Out)

Recording close-ups of your subjects and recording wideangle shots adds special effects to your videos.

- 1 To record a wider view (Zooming-out): Push the [W/T] Zoom Lever toward [W]. To enlarge your subject (Zooming-in): Push the [W/T] Zoom Lever toward [T].
 - The Zoom Magnification Indication appears for a few seconds.
 - The farther you push the [W/T] Zoom Lever toward [W] or [T], the faster the zooming speed becomes.
 - During recording, the zooming speed is slower than during recording pause.

Enlarging Your Subjects Even More (Digital Zooming)

Selecting one of the two settings for [D.ZOOM] on the Menu makes it possible to farther enlarge the subject.

(→ 126, 128)

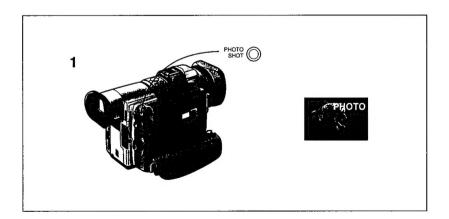
- 24×: Digital zooming up to 24×.
- 120×: Digital zooming up to 120×.
- Up to 12x, the zooming is done optically.
- The higher the Digital Zoom Magnification is, the lower is the picture quality.
- If you set [D.ZOOM] on the Menu to [24×] or [120×], the [D.ZOOM] Indication appears.

Recording Extra Close-up Shots of Small Subjects (Macro Close-up Function)

When the zoom magnification is 1x, the Movie Camera can focus on subjects down to a distance of approximately 30 mm between lens and subject. This allows recording very small subjects such as insects.

 When you have zoomed to the tele setting, precise focussing is only possible on subjects no closer than 1.2 metres.

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Using the Movie Camera as a Digital Still Camera (Photoshot)

With this function, you can record still pictures with sound for approximately 7 seconds each.

This function is convenient for example for pictures that you want to print on a Video Printer.

1 Press the [PHOTO SHOT] Button. (This function can be used during recording, too.)

The Movie Camera records a still picture for approximately 7 seconds and then switches over to the Recording Pause Mode.

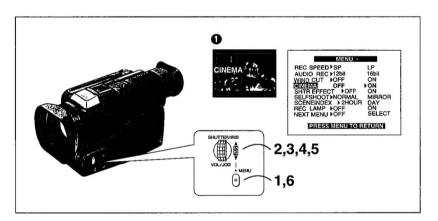
 The image on the LCD Monitor or in the Finder also stands still.

If you select [NEXT MENU] on the Menu and set [SHTR EFFECT] to [ON], the screen blinks briefly

and a simulated shutter click sound can be heard when you press the [PHOTO SHOT] Button.

- With the still pictures that you have recorded in the Photoshot Mode, you can do the following.
- Index search (→ 62)
 (However, searching for the picture(s) recorded at the beginning of the tape may not be possible.)
 Automatic printing (→ 120)
- ◆ If you select NEXT MENU] on the Menu and set (SHTR EFFECT) to [ON], the visual shutter effect and the click sound are also recorded. (There is a slight delay between pressing the [PHOTO SHOT] Button and the actual start of recording. The visual shutter effect and click sound may occur with slight delay after recording of the still picture has started.)
- . The picture quality deteriorates slightly.
- Using the Photoshot Function makes the Remaining Tape Time Indication disappear. Resuming normal recording makes the Remaining Tape Time Indication appear again.

-40-



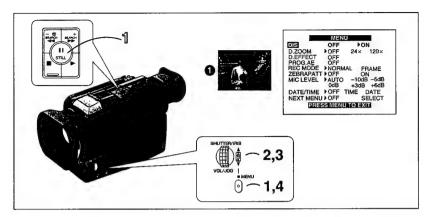
Recording in the Cinema Mode (Cinema Mode)

This mode lets you record in the cinema-like widescreen format.

- 1 Press the [MENU] Button. The Menu appears.
- 2 Turn the [PUSH] Dial to select [NEXT MENU].
- 3 Press the [PUSH] Dial to select [SELECT].

- 4 Turn the [PUSH] Dial to select [CINEMA].
- 5 Press the [PUSH] Dial to select [ON].
- 6 Press the [MENU] Button twice to exit the Menu.
- In the Cinema Mode, black bars appear at the top and bottom of the LCD Monitor and the Finder screen.

Cancelling the Cinema Mode Set [CINEMA] on the Menu to [OFF].



Recording with Minimised Camera Shake (Digital Image Stabilizer)

In recording situations where shaking of the Movie Carnera is likely to happen, for example when you have zoomed in on a distant subject or when you record while walking, you can use this function to stabilize the image.

- In case of very strong camera shake, it may not be possible to stabilize the picture.
- 1 Press the [MENU] Button.
 The Menu appears.
- 2 Turn the [PUSH] Dial to select [DIS].
- 3 Press the [PUSH] Dial to select [ON].
- 4 Press the [MENU] Button to exit the Menu.

The [(a) Indication appears.

- In a dimly lit place, the Digital Image Stabilizer Function may not work. In this case, the [] Indication flashes.
- Under fluorescent lamps, the picture brightness may fluctuate and the colours may be unnatural.
- The picture quality may deteriorate slightly.
- The subject becomes slightly enlarged.
- When you use a tripod, we recommend that you set [DIS] to [OFF].

Cancelling the Digital Image Stabilizer Function Set [DIS] on the Menu to [OFF].

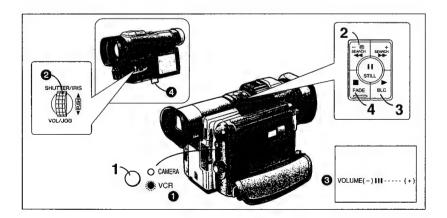
Recording Still Pictures

You can record still pictures of any desired length together with sound either in the middle of a normal recording or from the Recording Pause Mode.

Press the Still Button [11].

Cancelling the Still Picture Recording Mode Press the Still Button [11] again.

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Viewing the Just Recorded Scenes on the Movie Camera (Playback)

You can play back recorded scenes right after recording.

- 1 Press the [VCR/CAMERA] Button so that the [VCR] Lamp 1 lights.
- 2 Press the Rewind Button [◄◄] to rewind the tape.
 - Rewind the tape to the point where the recording started.
 - If the tape reaches the beginning, rewinding automatically stops.
- 3 Press the Play Button [▶] to start playback.
- 4 To stop playback: Press the Stop Button [■].

■ Adjusting the Sound Volume

Keep the [PUSH] Dial @ pressed until the [VOLUME] Indication @ appears. Then, turn the [PUSH] Dial to adjust the volume.

To make the [VOLUME] Indication disappear, press the [PUSH] Dial again until the [VOLUME] Indication has disappeared.

Making the Date/Time Indication Appear

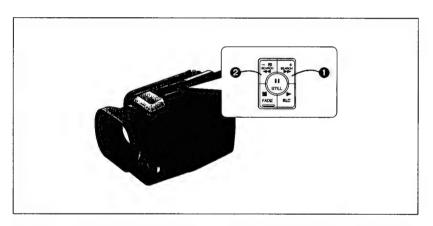
This Movie Camera automatically records the date and time, however not directly in the picture but as part of the sub code (→ 152).

To make the Date/Time Indication appear, set [DATE/TIME] on the Menu to the desired setting.

Using the Support Leg for Easy-to-View Playback

Extending the Support Leg @ from the underside of the Movie Carnera makes it easier to view the playback picture on the LCD Monitor.

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Searching for a Scene You Want to Play Back

Cue Playback

Keep the Cue Button [▶▶] pressed during playback.

Review Playback

Keep the Review Button [◄◄] ② pressed during playback.

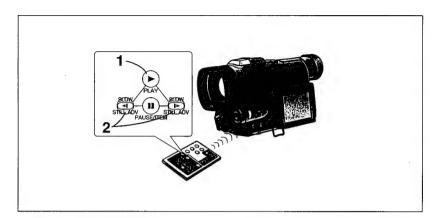
Search Lock Function

For longer Cue or Review Playback, press the Cue Button [▶▶] or the Review Button [◄◄] only briefly. As this locks the search function, you do not need to keep the button pressed for a long time.

To resume normal playback, press the Play Button [▶].
 In Cue and Review Playback, pictures with fast-moving subjects may contain mosaic-like patterns.

Hyper Check Function

- If you press the Fast-forward Button [►►] during fast-forwarding of the tape or the Rewind Button [◄◄] during rewinding of the tape, Cue Playback or Review Playback continues for as long as you keep the Button pressed.
- Before and after activating Cue Playback or Review Playback, the picture may momentarily be distorted.



Playing Back in Slow Motion (Slow Motion Playback)

- 1 Press the Play Button [▶].
- 2 Press the Slow Motion/Still Advance Button [◄] or [▶] on the Remote Controller.

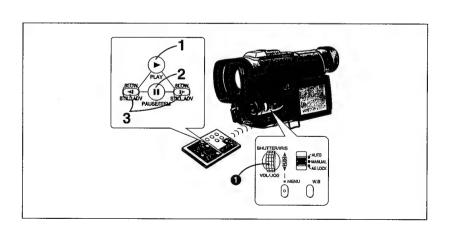
Pressing the [4] Button starts slow motion playback in reverse direction, and pressing the [1-] Button starts slow motion playback in forward direction.

Scenes recorded in the SP Mode are played back at approximately 1/5th of the normal speed. Scenes recorded in the LP Mode are played back at approximately 1/3rd of the normal speed.

Resuming Normal Playback Press the Play Button [▶]. Playback continues with normal speed.

 During slow motion playback in reverse direction, the Time Code Indication may not be accurate.

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Playing Back Still Pictures and Advancing Them One by One (Still Playback/Still Advance Playback)

You can freeze the action during playback and advance the still pictures one by one.

- 1 Press the Play Button [▶].
- 2 Press the Pause Button [11]. The playback picture stops in the Still Playback Mode.
- 3 Press the Slow Motion/Still Advance Button [◄] or [▶] on the Remote Controller.

Pressing the [4] Button advances the still picture frame by frame in reverse direction. Pressing the [1-] Button advances the still picture frame by frame in forward direction.

Resuming Normal Playback

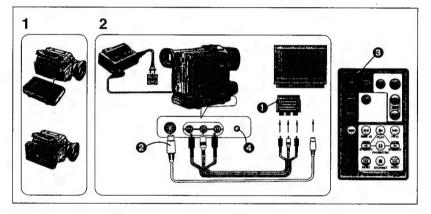
Press the Play Button [▶].
Playback continues with normal speed.

- If you keep the [I+] Button on the Remote Controller pressed for more than 1 second during Still Advance Playback, the Movie Camera switches over to the Slow Motion Playback Mode with slower speed than in the normal Slow Motion Playback Mode.
- If you leave the Movie Camera in the Still Playback Mode for more than 6 minutes, it switches over to the Stop Mode to protect the video heads against excessive wear.
- During Still Advance Playback, the Time Code Indication may not be accurate.

Using the Jog Dial (Jog Playback)

By turning the Jog Dial ([PUSH] Dial) ① on the Movie Camera in the Still Playback Mode, you can advance the still pictures one by one in forward or reverse direction.

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Playing Back on a TV (With the Output Terminal Box [AV ONE TOUCH STATION] Attached)

Attaching the Output Terminal Box [AV ONE TOUCH STATION] to the Movie Camera makes it possible to playback recorded scenes on a TV.

- 1 Attach the Output Terminal Box [AV ONE TOUCH STATION].
 (→ 110)
- 2 Connect the Video and Audio Output Sockets to the Video and Audio Input Sockets on the TV.

Use the AV Cable and 21-pin Adaptor ① to connect to the TV. If your TV is equipped with an S-Video Socket, also connect the S-Video Cable ②.

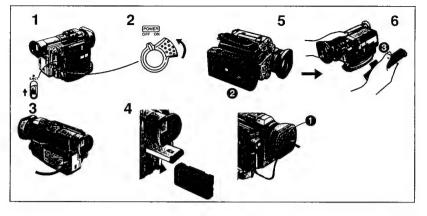
- Before connecting, turn off both the Movie Camera and the TV.
- If a cassette recorded with copyright protection signal is played back, the screen becomes black. However, scenes recorded with this Movie Camera do not contain a copyright protection signal.

Making the Indications Appear on the TV Screen

Press the [OSD] Button **3** on the Remote Controller. The On-Screen Indications also appear on the TV screen

Playing Back the Sound via Headphones Using the [PHONE] Socket @ on the Output Terminal Box [AV ONE TOUCH STATION] lets you listen to the playback sound via headphones.

Even if the sound is played back via headphones, the sound from the Movie Camera's built-in speaker can also be heard. If you want to mute the sound from the speaker, lower the volume (→ 46).



After Use

- 1 Take out the cassette. (→ 22)
- 2 Set the [POWER ON/OFF] Switch to [OFF].
- 3 Retract the Finder and close the LCD Monitor.
- 4 Take out the Battery. (→ 18)

Attaching the Lens Cap (

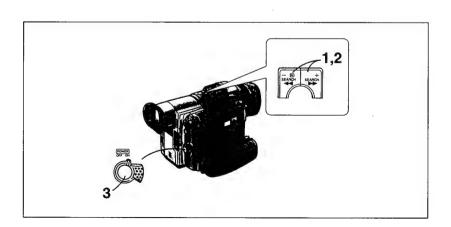
After use, attach the supplied Lens Cap to the Lens to

Removing the Output Terminal Box [AV ONE TOUCH STATION]

If the Output Terminal Box (AV ONE TOUCH STATION) is attached to the Movie Camera, remove it in the following way:

- 5 Turn the Locking Handle in the direction of the arrow Q.
- 6 Pull off the Output Terminal Box [AV ONE TOUCH STATIONI in the direction of the arrow 3.

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Viewing Recorded Scenes During Recording Pause

(Camera Search)

You can view recorded scenes when the Movie Camera is in the Recording Pause Mode.

The Camera Search Function is convenient to search for a scene from which you want to start recording a new scene with smooth scene-to-scene transition.

1 Keep the Reverse Search Button [◄◄] or the Forward Search Button [▶▶] pressed for more than 1 second. Pressing the [◄◄] Button plays back the picture in

forward direction.

reverse direction. Pressing the [>>] Button plays back the picture in Starting to Record from the Desired Position

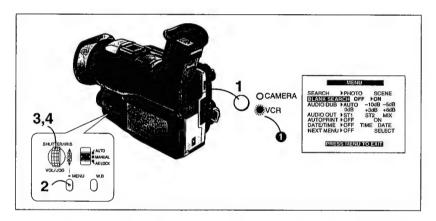
2 Release the pressed Search Button. The Movie Camera is in the Recording Pause Mode.

3 Press the Start/Stop Button to start recordina.

The Movie Camera starts recording a new scene with smooth scene-to-scene transition.

- In the Camera Search Mode, the picture may contain mosaic-like patterns. However, this is a phenomenon particular to digital video and completely normal.
- If the Recording Speed Mode (SP/LP) of the previous and the new recording are different, the playback picture may be distorted.

-58-



Searching for the End of the Recorded Part on a Cassette (Blank Search)

With the Blank Search Function you can quickly locate the end of the recorded part on a cassette (or a blank part between recordings).

- 1 Press the [VCR/CAMERA] Button so that the [VCR] Lamp lights.
- 2 Press the [MENU] Button. The Menu appears.

- 3 Turn the [PUSH] Dial to select [BLANK SEARCHI.
- 4 Press the [PUSH] Dial to select [ON]. Approximately 1 second before the end of the last recorded scene, the Movie Camera switches over to the Still Playback Mode.
- . If there is no blank part on a cassette, the Movie Camera stops at the end of the tape.
- · When the Blank Search has finished, you can press the [VCR/CAMERA] Button so that the [CAMERA] Lamp lights, and then start recording. The new scene is recorded with a smooth transition from the last to the new scene.

Searching for the Beginning of Recorded Scenes Marked with Index Signal

(Index Search)

Index Search

To allow easy searching for desired scenes, this Movie Camera automatically records index signals during recording as follows:

Photoshot Index Signal

To search for still pictures recorded in the Photoshot Mode (→ 40) and to use for automatic printing (→ 120).

A photoshot index signal is automatically recorded every time you record a still picture in the Photoshot Mode.

Scene Index Signal

To search for the beginning of recorded scenes.

A scene index signal is automatically recorded in the following cases:

- . When you start recording after inserting a cassette.
- Depending on the setting of [SCENEINDEX] on the Menu (→ 126-130):

[2HOUR]: An index signal is recorded when recording is restarted after a lapse of

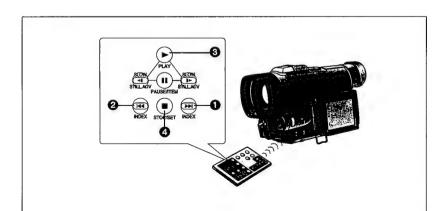
more than 2 hours.

[DAY]: An index signal is recorded when

recording is restarted after the date has changed since the last recording.

(While an index signal is being recorded, the [INDEX] Indication flashes for a few seconds.)

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Searching for Photoshot Pictures (Photoshot Index Search)

- Press the [VCR/CAMERA] Button on the Movie Camera so that the [VCR] Lamp lights.
- Set [SEARCH] on the Menu to [PHOTO]. (→ 126, 132)
 (The initial setting is [PHOTO].)

Photoshot Index Search In Forward Direction
Press the Index Button [►►] • on the Remote Controller.

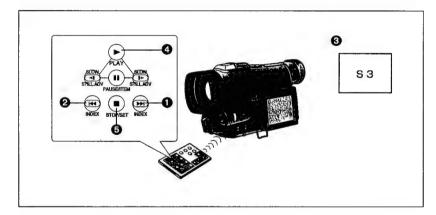
Photoshot Index Search in Reverse Direction
Press the Index Button [◄◄] ② on the Remote Controller.

 At every press of the corresponding button, the tape is fast-forwarded or rewound to the next still picture recorded in the Photoshot Mode. After reaching the next still picture, the still picture is played back continually together with the sound (only for apporximately 4 seconds). (If you leave the Movie Camera in the Still Playback Mode for more than 6 minutes, it switches over to the Stop Mode to protect the video heads against excessive wear).

- The Photoshot Index Search may not work correctly for still pictures recorded near the beginning of the tape.
- If you keep the [I◄◄] or [►►] Button pressed for more than 2 seconds, the Intro Search Function is activated and it plays back all still pictures recorded in the Photoshot Mode on the cassette one after another for a few seconds each.

(To cancel the Intro Search Function, press the Play Button [▶] ③ or the Stop Button [■] ②.)

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Searching for the Beginning of Recorded Scenes (Scene Index Search)

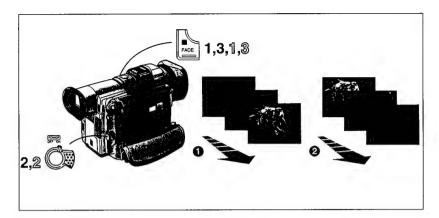
- Press the [VCR/CAMERA] Button on the Movie Camera so that the [VCR] Lamp lights.
- Set [SEARCH] on the Menu to [SCENE]. (→ 126, 132)

Scene Index Search in Reverse Direction
Press the Index Button [I◄◄] ② on the Remote
Controller.

 When you briefly press the corresponding button once, the [S1] Indication appears and the search for the next scene marked with an index signal starts. After the Scene Index Search has started, every time you press the button, the indication changes successively from [S2] to [S9], and the beginning of the scene corresponding to the selected number is located.
After reaching the desired scene, playback starts automatically. (At a time, Scene Index Search in forward or reverse direction is possible up to the ninth scene marked with Index signal from the present tape position.)

- If the distance between two scene index signals is less than 1 minute, the Scene Index Search may not work correctly.
- The Scene Index Search may not work correctly for scenes recorded near the beginning of the tape.
- If you keep the [I◄◄] or [➤➡] Button pressed for more than 2 seconds, the Intro Search Function is activated and it plays back the beginning of all scenes marked with an index signal on the cassette one after another for a few seconds each.

(To cancel the Intro Search Function, press the Play Button [▶] ② or the Stop Button [■] ③.)



Fading In/Out

Fading In O

Fading-in lets you make the picture and sound appear gradually from a black screen at the beginning of a

- 1 With the Movie Camera in the Recording Pause Mode, keep the Fade Button [■] pressed.
 The picture gradually disappears.
- 2 When the picture has completely disappeared, press the Start/Stop Button to start recording.
- 3 Approximately 3 seconds after the recording has started, release the Fade Button ■.

The picture gradually appears again.

Fading Out 2

Fading-out lets you make the picture and sound disappear gradually into a black screen at the end of a scene.

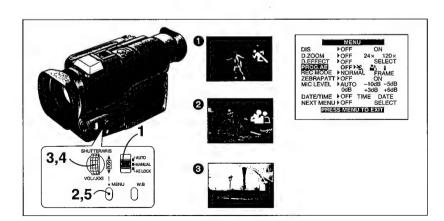
¶ During recording, keep the Fade Button

[■] pressed.

The picture gradually disappears.

- After the picture has completely disappeared, press the Start/Stop Button to stop recording. The Movie Camera is in the Recording Pause Mode.
- 3 Release the Fade Button [■].

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Recording In Various Situations (Programme AE)

This function lets you select Automatic Exposure settings optimized for special recording situation.

1 Set the Mode Selector Switch to [MANUAL].

The [MNL] Indication appears.

- 2 Press the [MENU] Button. The Menu appears.
- 3 Turn the [PUSH] Dial to select [PROG.AE].
- 4 Press the [PUSH] Dial to select the desired mode ([¾], [♣] or [♠]). If you have adjusted the shutter speed (→ 86) or the iris (→ 88), it is not possible to select a Programme AE Mode.

5 Press the [MENU] Button to exit the Menu.

The indication of the selected mode appears.

[🔆] Sports Mode 🛈

To record scenes with fast-moving subjects such as sports scenes.

[🛂] Portrait Mode 2

To make subjects stand out sharply from the background.

[2] Low Light Mode (3)

To record dark scenes more brightly.

Cancelling the Programme AE Function Set [PROG.AE] on the Menu to [OFF].

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Sports Mode

- When playing back scenes recorded in the Sports Mode, you can enjoy slow motion and still playback of very sharp images with fine details.
- Avoid recording under fluorescent, mercury-vapour or natrium lamps in this mode as the colour and the brightness of the playback picture might fluctuate.
- When recording subjects lit by strong lights or with much light reflection, the playback picture may contain vertical streaks of light.
- ♦ When the scene is not sufficiently lit, the [♣₭] Indication flashes.
- When using this mode for recording indoors, the playback picture may flicker.
- It is not possible to select the Sports Mode [♣] together with the Gain-up Mode [GAINUP] on the [MENU (D.EFFECT)] Menu.

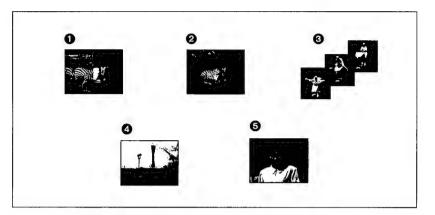
Portrait Mode

- When using this mode for recording indoors, the playback picture may flicker.
- It is not possible to select the Portrait Mode (♣5) together with the Gain-up Mode [GAINUP] on the [MENU (D.EFFECT)] Menu.

Low Light Mode

- It may not be possible to sufficiently brighten up extremely dark scenes.
- If you have adjusted the shutter speed (→ 86) or the iris (→ 88), it is not possible to select a Programme AE Mode ((¾,], [♣,] or (♠))

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Recording with Special Effects (Digital Effects)

There are 5 different modes available for adding special digital picture effects.

• Wipe Mode [WIPE]

It gradually replaces a picture of the last recorded scene with the picture of the new scene, like drawing a curtain. For details, (\rightarrow 78).

Mix Mode [MIX]

It gradually fades out the picture of the last recorded scene while fading in the picture of the new scene. For details, (→ 80).

O Strobe Mode [STROBE]

It records the pictures with a strobescope-like effect.

④ Gain-up Mode [GAINUP]

It electronically brightens up the picture.

- In this mode, adjust the focus manually.
- Some After-image distortion may occur during recording with the Gain-up Function.

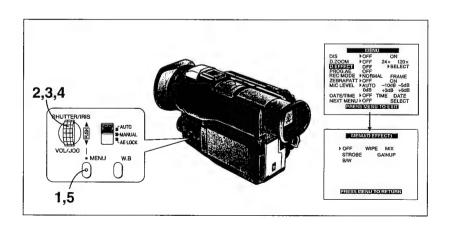
Monotone Mode (B/W)

The picture is recorded in black and white.

 The Digital Effects cannot be used when the Digital Image Stabilizer Function or the Digital Zoom Function is activated, or when [REC MODE] on the Menu is set to [FRAME].

When you want to use a digital effect, make sure that [D.ZOOM] and [DIS] on the Menu are set to [OFF] and that [REC MODE] is set to [NORMAL].

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Recording with Special Effects (Digital Effects) (Continued)

Selecting the Desired Digital Effect

- 1 Press the [MENU] Button.
 The Menu appears.
- 2 Turn the [PUSH] Dial to select [D.EFFECT].
 - The Digital Effects cannot be used when the Digital Image Stabilizer Function or the Digital Zoom Function is activated, or when [REC MODE] on the Menu is set to [FRAME].
 When you want to use a digital effect, make sure that [D.ZOOM] and [DIS] on the Menu are set to
- [OFF] and that [REC MODE] is set to [NORMAL].

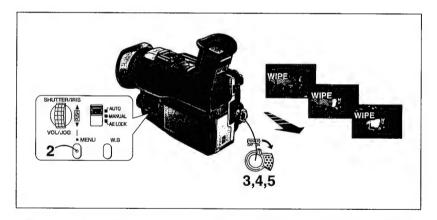
 3 Press the [PUSH] Dial to select [SELECT].
 The [MENU (D.EFFECT)] Menu appears.

- 4 Press the [PUSH] Dial to select the desired digital effect.
- 5 Press the [MENU] Button twice to exit the Menu.
 - The picture has the selected digital effect now. However, the effect of the Wipe Function and the Mix Function only become visible when actually recording in the respective mode. (

 78, 80)
- If you have selected [GAINUP] on the [MENU (D.EFFECT)] Menu, it is not possible to select the Manual White Balance Mode.
- If you have adjusted the shutter speed (→ 86) or the iris (→ 88), it is not possible to select [GAINUP] on the [MENU (D.EFFECT)] Manu.
- It is not possible to select the Sports Mode [※] or the Portrait Mode [♣] together with the Gain-up Mode [GAINUP] on the [MENU (D.EFFECT)] Menu.

Cancelling the Digital Effect Set [D.EFFECT] on the Menu to [OFF].

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Recording with Special Effects (Digital Effects) (Continued)

■ Wipe Mode

It gradually replaces a still picture of the last recorded scene with the moving picture of the new scene, like drawing a curtain.

After performing steps 1-3 on page 76:

- 1 Select [WIPE] on the [MENU (D.EFFECT)] Menu. (→ 76)
- 2 Press the [MENU] Button twice to exit the Menu.

The [WIPE] Indication appears.

3 Press the Start/Stop Button to start recording.

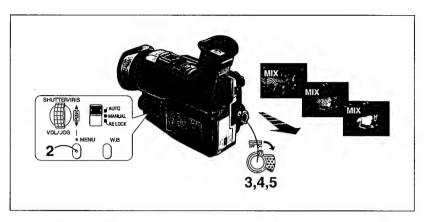
The normal recording starts.

4 Press the Start/Stop Button to pause recording.

The last picture is stored in memory.

5 Press the Start/Stop Button to start recording again.

The last picture of the previous scene is gradually replaced by the new scene.



Recording with Special Effects (Digital Effects) (Continued)

Mix Mode

It gradually fades out a still picture of the last recorded scene while fading in the moving picture of the new scene.

After performing steps 1-3 on page 76:

- 1 Select [MIX] on the [MENU (D.EFFECT)] Menu. (→ 76)
- 2 Press the [MENU] Button twice to exit the Menu.

The [MIX] Indication appears.

3 Press the Start/Stop Button to start recording.

The normal recording starts.

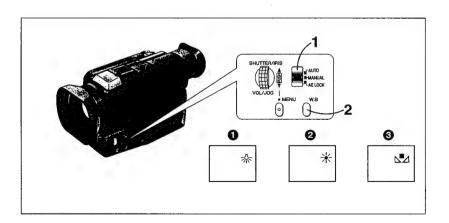
4 Press the Start/Stop Button to pause recording.

The last picture is stored in memory.

5 Press the Start/Stop Button to start recording again.

The last picture gradually fades out while the new scene fades in.

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Recording with Natural Colours (White Balance)

This Movie Camera automatically adjusts the white balance to ensure that the pictures are recorded with natural colours. For certain types of subjects and lighting conditions, however, this Auto White Balance Adjustment Mode may not be able to ensure natural colours (\$\infty\$ 158, 160). In these cases, adjust the white balance manually.

1 Set the Mode Selector Switch to [MANUAL].

The [MNL] Indication appears.

2 Press the [W.B] Button.

Repeatedly press the [W.B] Button to select the desired White Balance Mode.

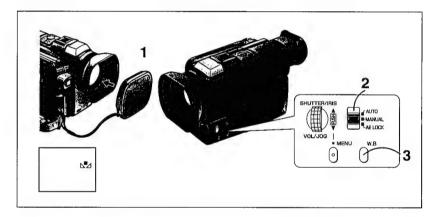
The modes change in the following order:

- Indoor (Incandescent Lamp) Mode (->>)
- ② Outdoor Mode (※)
- O Lock Mode (Na)
- If you select [GAINUP] on the [MENU (D.EFFECT)]
 Menu, you cannot select or change the White Balance
 Mode.

Returning to the Auto White Balance Adjustment Mode

Set the Mode Selector Switch to [AUTO].

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Adjusting the White Balance Manually

Use the Manual White Balance Adjustment Mode for all types of lighting outside the range ♠ (→ 160), as the Auto White Balance Adjustment Mode can only ensure natural colours for the types of lighting within that range. For optimum results under almost any types of lighting, we recommend that you adjust the white balance manually for each new scene.

- 1 Attach the Lens Cap and zoom in until the entire screen becomes white.
- 2 Set the Mode Selector Switch to [MANUAL].

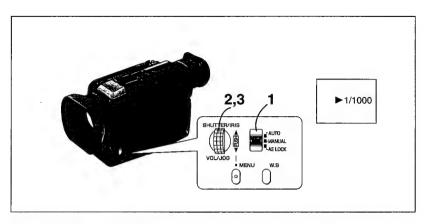
The [MNL] Indication appears.

3 Keep the [W.B] Button pressed until the [N.□] Indication stops flashing and remains lit.

- The Manual White Balance Adjustment is now finished. If you want to use this setting again later on, for example after having used Automatic White Balance Adjustment, you can recall it by pressing the [W.B] Button 3 times. (In this case, the [№]] Indication flashes.)
- When the [[2]] Indication remains flashing under weak illumination, the Manual White Balance Adjustment can not be set manually.

Returning to the Auto White Balance Adjustment Mode

Set the Mode Selector Switch to [AUTO].



Adjusting the Shutter Speed Manually

To achieve special creative effects or to cope with special lighting situations or fast-action scenes, you can adjust the shutter manually.

1 Set the Mode Selector Switch to [MANUAL].

The [MNL] Indication appears.

2 Press the [PUSH] Dial.

If you have adjusted the shutter speed, it is not possible to select a Programme AE Mode ([長], [弘], or [a]) or the Gain-up Mode [GAINUP] on the [MENU (D.EFFECT)] Menu.

3 Turn the [PUSH] Dial to adjust the shutter speed.

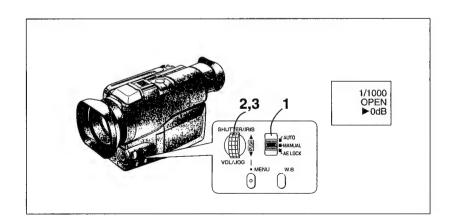
Range of Shutter Speed Adjustment 1/50 –1/8000 s

The standard shutter speed is 1/50 s.

The nearer to [1/8000] a setting you select, the faster the shutter speed becomes.

Returning to the Normal Shutter Speed Set the Mode Selector Switch to [AUTO].

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Adjusting the Iris (F Number) Manually

To achieve special creative effects or to cope with special lighting situations or fast-action scenes, you can adjust the iris (F number) manually.

1 Set the Mode Selector Switch to [MANUAL].

The [MNL] Indication appears.

2 Press the [PUSH] Dial twice. The [►F] Indication appears.

3 Turn the [PUSH] Dial to adjust the iris.

Range of Iris Adjustment

CLOSE (Closed) → F16.0...F1.7 → OPEN (Opened) +0dB...+18dB

The nearer to [CLOSE] a value you select, the darker the picture becomes.

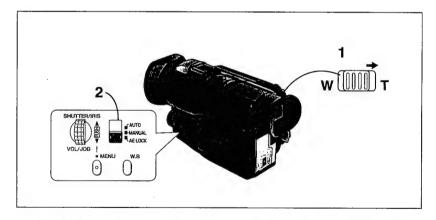
The nearer to [OPEN] a value you select, the brighter the picture becomes.

The figures with +dB show the Gain-up value. If you increase the value too much, the picture quality deteriorates

Returning to the Normal Iris Value (F Number) Set the Mode Selector Switch to [AUTO].

- Manually adjusting the shutter speed (+ 86) after performing manual iris adjustment changes the iris back to automatic adjustment.
- Therefore, if you want to adjust both the shutter speed and iris manually, be sure to adjust the shutter speed first.
- If you have adjusted the iris, it is not possible to select a Programme AE Mode ((ॐ,), (∰,) or (ஓ)) or the Gain-up Mode [GAINUP] on the [MENU (D.EFFECT)]

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Recording with Fixed Brightness (AE Lock)

The AE Lock Function lets you record a subject with the same brightness even when the lighting conditions change greatly. For example, when you record a person who moves from a bright to a dark place, or vice versa, this function prevents the person's face from becoming brighter or darker.

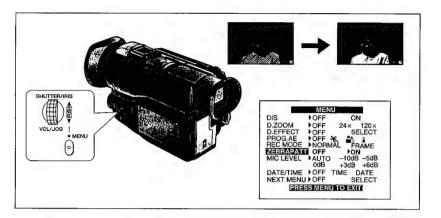
1 Push the [W/T] Zoom Lever toward [T] to zoom in on the subject.

2 Set the Mode Selector Switch to [AE LOCK].

The [AE LOCK] Indication appears.
The brightness of the picture is now locked to the value it had at the moment of setting the switch to [AE LOCK].

Cancelling the AE Lock Function Set the Mode Selector Switch to [AUTO] or [MANUAL].

Locking the Brightness at a Desired Level
After Step 1 above, set the Mode Selector Switch to
[MANUAL] to adjust the brightness manually (+> 86, 88)
and then set the Mode Selector Switch to [AE LOCK].



Other Convenient Functions

Zebra Pattern

Using the Zebra Pattern makes it easy to adjust the brightness of the picture to an optimum level, even before you start recording.

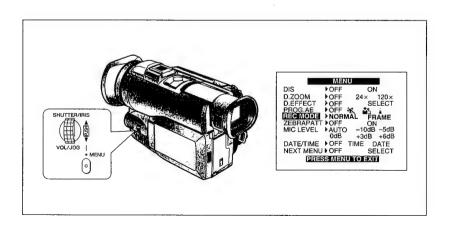
If you set [ZEBRAPATT] on the Menu to [ON], diagonal white bands (Zebra Pattern) appear on the LCD Monitor or in the Finder on parts of the picture which are overexposed (extremely brightly lit and shiny subjects).

To prevent recording of overexposed, whitish pictures. manually adjust the shutter speed (+ 86) and/or iris/gain (- 88) so that the Zebra Pattern disappears.

However, when recording a person wearing a white shirt. adjust so that the Zebra Pattern over the face just disappears but remains distinctly over the white shirt. If it disappears over the white shirt, the picture becomes too

Of course, the Zebra Pattern is not recorded onto the

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Other Convenient Functions (Continued)

Recording Mode

If you set [REC MODE] on the Menu to [FRAME] for recording (→ 126, 128), the still picture can be played back with increased clarity.

NORMAL: FRAME:

Select this mode for normal recording. As the pictures are recorded as frames.

their vertical resolution is 50% higher than in normal recording.

However, fast movements in the picture

become somewhat jerky.

Use this mode for recording still pictures that you want to print or import into

computer applications.

. If you set [REC MODE] to [FRAME], it is not possible to use a digital effect. (→ 74)

Microphone Sensitivity Level

You can adjust the microphone sensitivity for recording and audio dubbing by selecting a desired setting for [MIC LEVEL] on the Camera Mode Menu (→ 128) or for [AUDIO DUB] on the VCR Mode Menu (→ 132).

To record with automatically adjusted

ontimum level

-10dB: To record with reduced volume. -5dB: To record with slightly reduced volume. OdB:

To record the sound with default sensitivity. Loud sounds may become

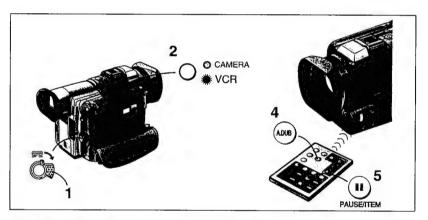
distorted

+3dB: To record with slightly increased volume. To record with increased volume.

. When you set [MIC LEVEL] to any other setting than [AUTO], the Microphone Sensitivity Level Indication, for example [MIC +6dB], may be displayed in red to warn that the sound being recorded is distorted. In this case, select a lower setting for [MIC LEVEL] or set [MIC LEVEL] to [AUTO].

When recording in the Mirror Mode, the [M] Indication is displayed in red. (However, if you have set [DISPLAY] on the Menu to (OFF), the IMI Indication does not appear.)

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Adding New Sound on a Recorded Cassette

(Audio Dubbing)

To perform audio dubbing, the Remote Controller is

You can add music or narration to a recorded cassette.

. If [AUDIO REC] on the Menu has been set to [16bit]. performing audio dubbing will completely erase the previously recorded sound.

Therefore, if you intend to perform audio dubbing but also want to keep the original sound, be sure to set [AUDIO REC] on the Menu to [12bit] before making the original recording.

. It is not possible to perform audio dubbing onto recordings made in the LP Mode. (+) 24)

1 Insert the recorded cassette and set the [POWER ON/OFF] Switch to [ON].

2 Press the [VCR/CAMERA] Button so that the [VCR] Lamp lights.

3 At the point from which you want to insert the new sound, switch the Movie Camera over to the Still Playback Mode.

4 Press the [A.DUB] Button on the Remote Controller.

5 Press the Pause Button [11] on the Remote Controller to start audio dubbing.

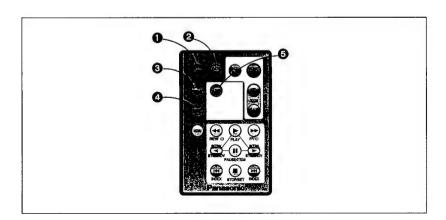
Stopping Audio Dubbing

Press the Pause Button [11] on the Remote Controller. The Movie Camera is again in the Still Playback Mode.

Playing Back the Sound Recorded with Audio Dubbing

- If you set [AUDIO REC] on the Menu to [12bit] for the original recording, the sound added with audio dubbing and the original sound are played back as follows depending on the setting selected for [AUDIO OUT] on the VCR Mode Menu (→ 126-132):
 ST1: The original sound alone is played back.
- ST2: The dubbed sound alone is played back.
- MIX: The original sound and the sound added with audio dubbing are played back together.
- Do not perform audio dubbing onto unrecorded parts of the tape. This could cause the playback picture and sound to be distorted.
- If you reset the Tape Counter to zero at the point where you want the audio dubbing to end and turn on the Memory Stop Function (→ 162), the audio dubbing automatically stops when the tape reaches that point.

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Remote Controller

Using the wireless Remote Controller supplied with the Movie Camera allows operating most of the Movie Camera's major functions from a distance.

Buttons on the Remote Controller

- Indication Output Button [OSD] (→ 54) To display the function and operation indications on a connected TV.
- ② Date and Time Button [DATE/TIME] (→ 46)

To make the Date/Time Indication appear or disappear in the picture during recording and playback.

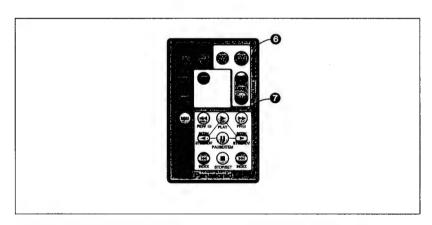
Indication Shift Button [DISPLAY]
 (→ 170)
 To select the desired Counter Indication.

② Reset Button [RESET] (→ 162)

② Reset Button [RESET] (→ 162)
To reset the Tape Counter to zero.

S Audio Dubbing Button [A.DUB] (→ 96) To perform audio dubbing.

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Controls for Recording and Sound Volume

Photoshot Button [PHOTO SHOT] (→ 40)

To record still pictures.

Recording Start/Stop Button [START/STOP] (→ 30)

To start and pause recording.

Zoom/Sound Volume Buttons [ZOOM/VOLUME]

To zoom in and out. (→ 38)
To adjust the volume of the playback sound. (→ 46)

Controls for Playback/Menu Setting

Rewind/Review Button [◄◄]

To start review playback (→ 48) if pressed during normal playback; and to rewind the tape if pressed in the Stop Mode.

Also to activate the Camera Search Function (→ 58)

Also to activate the Camera Search Function (→ 58) in reverse direction if kept pressed in the Recording Pause Mode. Pressing it briefly activates the Recording Check Function (→ 32).

Fast-forward/Cue Button [▶▶]

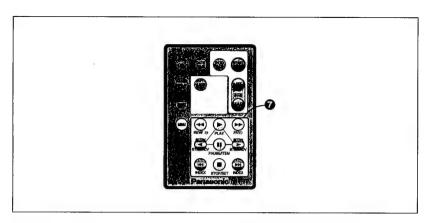
To start cue playback (\Rightarrow 48) if pressed during normal playback; and to fast-forward the tape if pressed in the Stop Mode.

Also to activate the Camera Search Function (→ 58) in forward direction if kept pressed in the Recording Pause Mode.

Play Button [▶] (→ 46)

To start playback.





Slow Motion/Still Advance Button [◄, ▶] (→ 50, 52)

To perform Slow Motion Playback if pressed in the Normal Playback Mode; and to perform Still Advance Playback if pressed in the Still Playback Mode.

Index Search Button [I◄◄, ▶►I] (→ 64, 66)

To search for recorded scenes marked with an index signal and for still images recorded in the Photoshot Mode

(I◄◄: in reverse direction, ▶►I: in forward direction)

Stop Button [■] (→ 46) To stop the tape.

Pause Button [11] (→ 52)

To pause playback. The playback picture stands still.

Using the Menu Button [MENU]

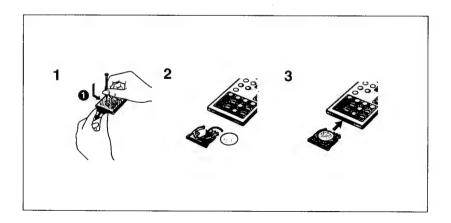
Pressing the Menu Button [MENU] displays the Menu. In this case, the functions of the following buttons are changed:

Pause Button → Item Button To select items on the Menu.

Stop Button → Setting Button
To set the mode for the selected item.

 The iris and the shutter speed cannot be adjusted with the Remote Controller. If you want to adjust them manually, use the [PUSH] Dial on the Movie Camera.
 (→ 86, 88)

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Remote Controller

■ Inserting the Button-type Battery

Insert the supplied button-type battery before using the Remote Controller.

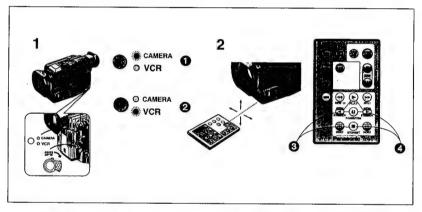
- 1 Pull out the Battery Holder while sliding the Stopper with a pointed object in the direction of the arrow .
- 2 Insert the button-type battery with the stamped (+) mark facing downward.
- 3 Insert the Battery Holder into the Remote Controller.

- When the button-type battery is exhausted, replace it with a new CR2025 battery.
 (The life of the battery is about 1 year. However, it depends on the frequency of use.)
- Keep the button-type battery out of the reach of children.
- Make sure you insert the battery with its poles correctly aligned.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

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■ Using the Remote Controller

1 Set the [POWER ON/OFF] Switch on the Movie Camera to [ON].

- When the [CAMERA] Lamp lights, you can use the recording functions.
- If you want to use the playback functions, press the [VCR/CAMERA] Button so that the [VCR] Lamp lights.
- 2 Aim the Remote Controller at the Remote Control Sensor on the Movie Camera and press the appropriate button.

Distance to the Movie Camera: Less than 5 metres.

Angle: Approximately 15° up, down, left and right from centre axis.

 The operative range described above is valid for using the Remote Controller indoors.
 When using it outdoors or under strong lights, it may

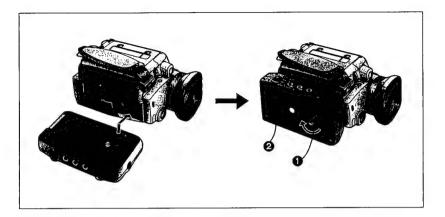
When using it outdoors or under strong lights, it may not work correctly even within the above range. Within a distance of about 1 metre, it is also possible to use the Remote Controller from the side (LCD Monitor side).

Selecting the Remote Controller Mode

When using two Movie Cameras at the same time, selecting different Remote Controller Modes makes it possible to operate them separately.

- If the Remote Controller Mode set on the Movie Camera and on its Remote Controller are not matched, the [REMOTE] Indication appears.
- Replacing the button-type battery in the Remote Controller automatically resets it to the [VCR1] Mode.
- Set [REMOTE] on the Menu to the desired Remote Controller Mode. (→ 126-130)
- Press the [◄] Button and the [■] Button simultaneously. This selects the [VCR2] Mode.
- Press the [I►] Button and the [■] Button simultaneously.
 This selects the [VCR1] Mode.

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Copying onto an S-VHS (or VHS) Cassette (Dubbino)

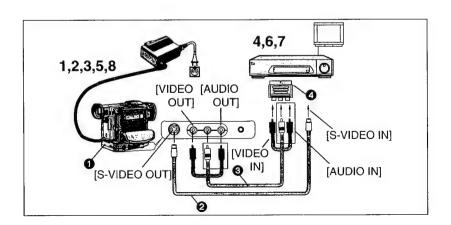
If you attach the Output Terminal Box (AV ONE TOUCH STATION), you can copy cassettes recorded with this

Movie Camera onto S-VHS or VHS cassettes.

Attaching the Output Terminal Box [AV ONE TOUCH STATION]

- 1 Insert the plug of the Output Terminal Box [AV ONE TOUCH STATION] into the underside of the Movie Camera and lock it with the Screw 1.
- Before copying, press the [OSD] Button on the Remote Controller (+> 54) so that no indications appear.
 Otherwise, the Counter Indication and function indications are also recorded onto the cassette.
- Extending the Support Leg @ from the underside of the Output Teminal Box [AV ONE TOUCH STATION] makes it easier to view the playback picture on the LCD Monitor.

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After connecting all equipment as shown above, perform the following operations:

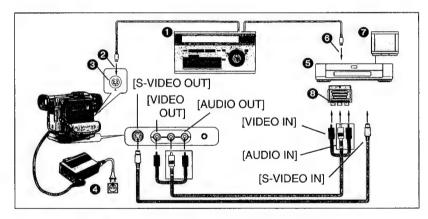
- 1 Movie Camera: Set the [POWER ON/OFF] Switch to [ON].
- 2 Movie Camera: Insert the recorded cassette.
- 3 Movie Camera: Press the [VCR/CAMERA] Button so that the [VCR] Lamp lights.
- 4 VCR:

Insert an unrecorded cassette with intact erasure prevention tab.

As some settings (external input, tape speed, etc.) on the VCR are necessary, please refer to your VCR's operating instructions.

- 5 Movie Camera: Press the Play Button [▶] to start playback.
- 6 VCR: Start recording.
- 7 VCR:
 Press the Pause or Stop Button to stop recording.
- 8 Movie Camera: Press the Stop Button [■] to stop playback.
- Output Terminal Box (AV ONE TOUCH STATION)
- S-Video Cable
- AV Cable
- @ 21-Pin Adaptor

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Copying with the Help of an Editing Controller

If you connect the Movie Camera to an Editing Controller equipped with 5-pin Edit Socket, this Movie Camera's playback functions can be controlled from the Editing Controller.

(The Output Terminal Box [AV ONE TOUCH STATION] is necessary.)

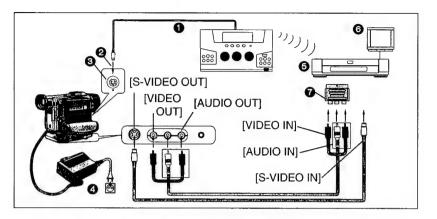
When Connecting the Editing Controller VW-EC500E ♠ (optional)

- A VCR equipped with 5-pin Edit Socket is necessary.
 When you connect the VW-EC500E to the Movie
- When you connect the VW-EC500E to the Movie Camera, an adjustment on the VW-EC500E is necessary. For the operation of the Editing Controller, refer to its operating instructions.

When Editing with Time Code

Press the [DISPLAY] Button on the Remote Controller to make the Time Code appear.

- When the Time Code is displayed, the Time Code Signal is output from the Edit Socket.
- When the Counter Indication is displayed, the Linear Tape Counter Signal is output.
- To Edit Socket
- Edit Socket
- Oconnect the AC Adaptor.
- 6 VCR (optional)
- 1 To Edit Socket
- TV (optional)
- ② 21-Pin Adaptor



When Connecting the Editing Controller VW-EC1E (optional)

- When you use the Editing Controller VW-EC1E (), it is not necessary to connect it to the Edit Socket on the VCR, as the VCR's operation is performed via infrared remote control. Therefore, editing is also possible onto VCRs not equipped with an Edit Socket.
- For the operation of the Editing Controller, refer to its operating instructions.

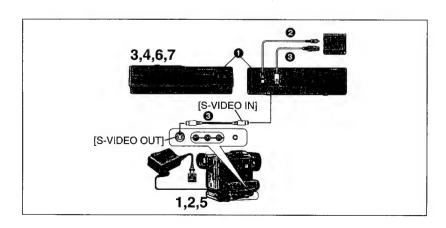
When Connecting the Editing Controller VW-EC310E to this Movie Camera, such events as described below may occur:

- The editing precision may be bad.
- · Editing cannot be performed correctly.

Therefore, we recommend that you use the VW-EC500E or the VW-EC1E as Editing Controller with this Movie Camera.

- 2 To Edit Socket
- Edit Socket
- Connect the AC Adaptor.
- O VCR (optional)
- TV (optional)
- 21-pin Adaptor

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Using the Movie Camera with a Video Printer

If you connect the Movie Camera to a Video Printer, you can print still pictures from scenes recorded with the Movie Camera.

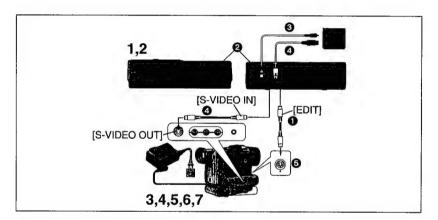
Movie Camera:

- 1 Set the [POWER ON/OFF] Switch to [ON] to turn the Movie Camera on.
- 2 Insert a recorded cassette and press the [VCR/CAMERA] Button so that the [VCR] Lamp lights.
- 5 Press the Play Button [▶].

Video Printer:

- 3 Turn the Video Printer on.
- 4 If the Video Printer is equipped with Digital Image Stabilizer Function and/or Moving/Still Picture Mode, adjust them according to the picture being input.
- 6 Store the image in memory.
- 7 Start printing.
- Read the operating instructions of the Video Printer ...
- Video Cable (supplied with the Video Printer)
- S-Video Cables (supplied with the Movie Camera and Video Printer)

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Using the Automatic Printing Function (Autoprint)

If you connect the Movie Camera to a Video Printer 2 equipped with 5-pin Edit Socket, you can use the Auto Print Function to automatically print still pictures recorded in the Photoshot Function.

Video Printer:

- 1 Turn the Video Printer on.
- 2 Make the necessary settings on the Video Printer according to the input signal.

Movie Camera:

3 Set the [POWER ON/OFF] Switch to [ON] to turn the Movie Camera on.

- 4 Press the [VCR/CAMERA] Button so that the [VCR] Lamp lights.
- 5 Search for the first still picture from which you want to start printing with the Auto Print Function.

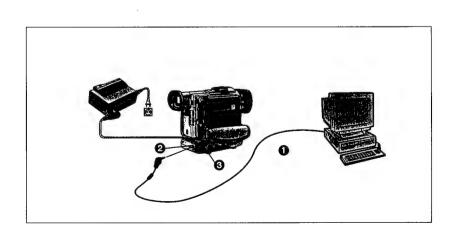
If you want to print all still pictures recorded on the cassette, rewind the tape to its beginning.

- 6 Press the [MENU] Button.
- 7 Set [AUTOPRINT] on the Menu to [ON]. Automatic printing starts.
- If you want to stop the automatic printing in the middle, press the Stop Button [III] on the Movie Camera.
- Edit Cable VW-K5E (optional)
- Video Cable (supplied with the Video Printer)
- S-Video Cables (supplied with the Movie Camera and Video Printer)
- 6 Edit Socket

- · When the cooling function of the Video Printer is activated and the printing speed slows down, the automatic printing may stop. In this case, set [AUTOPRINT] to [ON] again.
- . If you replace the ink cassette or paper during printing, the same picture may be printed twice.
- . If still pictures are recorded successively in the Photoshot Mode, some pictures may be skipped during
- Before storing an image in memory on the Video Printer, press the [OSD] Button (+ 54) on the Remote Controller of the Movie Camera so that no indications annear in the picture. Otherwise, the Counter Indication. and other function indications are also printed in the picture

- . In the following cases, some pictures may be skipped when printing with the Auto Print Function.
- . When you print still pictures recorded in the Photoshot Mode on a video camera of another brand.
- . If you turn the Movie Camera on and off several times (3 times or more) between recording two still pictures in the Photoshot Mode.
- . When you record a still picture in the Photoshot Mode on the same part of a cassette where a Photoshot picture was recorded before.
- When you select a different recording speed (SP/LP) between the recording of two still pictures in the Photoshot Mode.
- · At the first Photoshot Picture to be printed.

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Using the Movie Camera with a Computer

The Personal Computer Connection Kit VW-DTA1E (optional) for Digital Video Cameras makes it possible to connect the Movie Camera to a computer and transmit still video images to it. (The Output Terminal Box [AV ONE TOUCH STATION] is also necessary.)

Computer System Requirements

DV STUDIO can be installed in a PC/AT personal computer which can run Microsoft® Windows® 95.

Compatible machines: Personal computer with

80486DX4 or higher CPU (Pentium™ or higher

recommended)

True Color (approx. 16.7 million Graphic card: colours) recommended

(operation also possible even with 256 colours)

installed memory: 16 MB or more (32 MB or more

recommended)

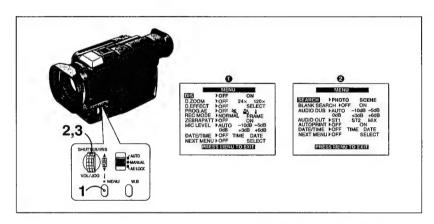
Free hard disk space: At least 10 MB Disk drive: CD-ROM drive Serial port: RS-232C (D-sub 9pin)

Other requirements: Mouse

To connect the Movie Camera to the computer, use the special Interface Adaptor (1) contained in the Personal Computer Connection Kit.

- · Pictures that you intend to import into computer applications should be recorded in the SP Mode.
- . When recording, take care that the Time Code is uninterrupted from the beginning of the tape.
- Windows® 95 is a trademark of Microsoft Corporation
- All other company and product names in the operating instructions are trademarks of their respective corporations.
- Digital Still Picture Terminal
- Output Terminal Box (AV ONE TOUCH STATION)

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Using the Menu Screen

This Movie Camera displays the settings of various functions in Menus to make it easy to select the desired functions and settings.

- 1 Press the [MENU] Button. The Menu appears.
- 2 Turn the [PUSH] Dial to select the item to be set.

Turning the [PUSH] Dial changes the highlighted

3 Press the [PUSH] Dial to set the selected item to the desired mode. Every press moves the cursor [>] to the next mode. Displaying the Camera Mode Menu 1 Press the [MENU] Button in the Recording Pause Mode.

- . While the Menu is displayed, recording is not possible.
- . During recording, displaying the Menu is not possible.

Displaying the VCR Mode Menu @ Press the [MENU] Button when the [VCR] Lamp is lit.

- · While the Menu is displayed, playback is not possible.
- · During playback, displaying the Menu is possible.

Exiting the Menu

Press the IMENUI Button again.

Note About the Settings Made on the Menu

The settings you selected on the Menu are maintained when you turn the Movie Camera off. However, if you disconnect the power supply unit (Battery or AC Adaptor) from the Movie Camera before turning it off, the selected settings may not be maintained.

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Menu Functions

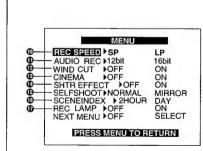
Camera Mode Menu

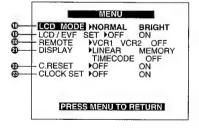
21

- Digital Image Stabilizer [DIS] (→ 44)
- ② Digital Zoom [D.ZOOM] (→ 38)
- O Digital Effects [D.EFFECT] (→ 76, 78, 80)
- Auto Exposure Modes [PROG.AE] (→ 70)

- Recording Mode [REC MODE] (→ 94)
- Zebra Pattern [ZEBRAPATT] (→ 92)
- Microphone Sensitivity Level [MIC LEVEL] (→ 94)
- Date and Time Indication [DATE/TIME] (→ 46)
- Other Items [NEXT MENU] (→ 130) If you set [NEXT MENU] to [SELECT], the next menu appears.

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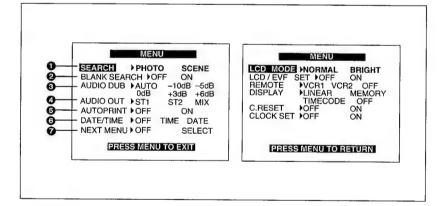




- Recording Speed Mode [REC SPEED] (→ 24)
- Audio Recording Mode [AUDIO REC] (→ 96)
- Wind Buffer [WIND CUT] If you set [WIND CUT] to [ON], the noise of the wind hitting the Microphone is reduced. However, this also causes a slight deterioration of the sound reproduction in the bass range.
- ⊕ Cinema-like Format Recording [CINEMA] (→ 42)
- ⑤ Shutter Effect [SHTR EFFECT] (→ 40)
- ⑤ Self-Recording [SELFSHOOT] (→ 34)
- Scene Index Mode [SCENEINDEX] (→ 62)

- Recording Lamp [REC LAMP] (→ 30)
- LCD Lighting Mode [LCD MODE] (→ 138)
- LCD and Finder Adjustment [LCD/EVF SET]
 (→ 138)
- Remote Controller Mode [REMOTE] (→ 108)
- Counter Display Mode [DISPLAY] (→ 170)
- ② Counter Reset [C.RESET] (→ 162)
 To reset the counter to zero.
 However, the Time Code cannot be reset.
- Date and Time Setting [CLOCK SET] (→ 134)

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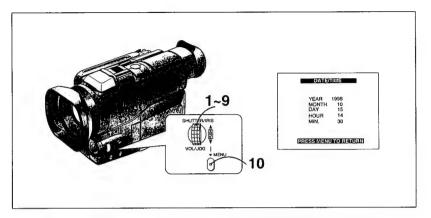
VCR Mode Menu

- Index Search [SEARCH] (→ 64, 66)
- ② Blank Search [BLANK SEARCH] (→ 60)
- Microphone Sensitivity Level [AUDIO DUB] (→ 96)
- Audio Output Mode [AUDIO OUT] (→ 98)

- Automatic Printing [AUTOPRINT] (→ 120)
- Date and Time Indication [DATE/TIME] (→ 46)

Other Items [NEXT MENU] if you set [NEXT MENU] to [SELECT], the next menu appears. This is the same menu as the third menu of the Camera Mode. (→ 130)

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Setting the Date and Time

Selecting [NEXT MENU] on the Menu (either Camera Mode Menu or VCR Mode Menu) and setting [CLOCK SET] to [ON] displays the menu shown above. (→ 130)

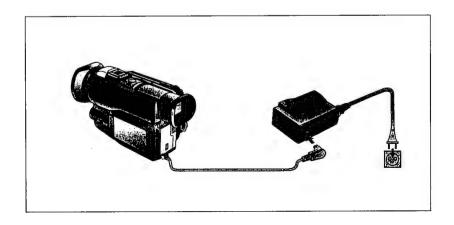
For example: To set the clock to 15th October 1998, 14:30.

- 1 Turn the [PUSH] Dial to set to [1998].
- 2 Press the [PUSH] Dial to select [MONTH].
- 3 Turn the [PUSH] Dial to set to [10].

- 4 Press the [PUSH] Dial to select [DAY].
- 5 Turn the [PUSH] Dial to set to [15].
- 6 Press the [PUSH] Dial to select [HOUR].
- 7 Turn the [PUSH] Dial to set to [14].
- 8 Press the [PUSH] Dial to select [MIN.].
- 9 Turn the [PUSH] Dial to set to [30].
- 10 Press the [MENU] Button to finish the date and time setting.

The operation of the clock starts from [00] seconds.

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- As small imprecisions in the time indication can occur, we recommend that you confirm that the time shown is correct before you start recording. When the [ℍ] indication appears, charge the built-in battery and set the date and time again.
- The years change in the following order:
 1990 → 1991 → ... → 2089 →1990 →...

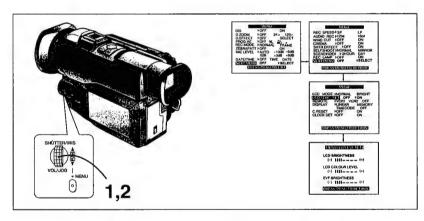
Charging the Built-in Battery

The built-in battery maintains the operation of the clock. When the [雲] Indication appears, the built-in battery is discharged. Charge the discharged battery in the following way and after charging is finished, set the date and time

- 1 Connect the AC Adaptor to the Movie Camera and to an AC mains socket. (→ 16)
- 2 Leave the Movie Camera turned off.
- 3 Leave the Movie Camera in this condition for approximately 4 hours.

 After charging for 4 hours, the built-in lithum battery can power the clock for approximately 3 months.

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Adjusting the LCD Monitor

Selecting [NEXT MENU] on the Menu (either Camera Mode Menu or VCR Mode Menu) and setting [LCD/EVF SET] to [ON] displays the following items. (→ 126-130)

LCD Brightness [LCD BRIGHTNESS]

To adjust the brightness of the LCD screen. The Bar Indication is divided into 8 steps. The more vertical bars are shown, the brighter is the screen.

LCD Colour Level [LCD COLOUR LEVEL]

To adjust the colour saturation of the LCD screen. The Bar Indication is divided into 8 steps. The more vertical bars are shown, the stronger are the colours.

Finder Brightness [EVF BRIGHTNESS]

To adjust the brightness of the Finder. The Bar Indication is divided into 8 steps. The more vertical bars are shown, the brighter is the screen.

- 1 Press the [PUSH] Dial to select the item that you want to adjust.
- 2 Turn the [PUSH] Dial. Turning it increases or decreases the number of vertical bars of the Bar Indication.

Boosting the Brightness of the Whole LCD Monitor

Setting [LCD MODE] on the Menu to [BRIGHT] brightens up the LCD Monitor.

 These adjustments have no influence on the actually recorded picture.

Cautions for Use

Take care that no water enters the Movie Camera when using it in the rain and snow or on the beach.

 The Movie Camera and the cassette could become damaged. (It might not be repairable.)

Keep the Movie Camera away from magnetized equipment (TVs. TV games, etc.).

- If you use the Movie Camera on or near a TV, the electromagnetic radiation may cause picture and sound distortion.
- Strong magnetic fields generated by speakers and large motors may damage the recordings on the tape and distort the picture.
- The electromagnetic radiation from micro-computers can adversely influence the Movie Camera and cause picture and sound distortion.
- If the Movie Camera is adversely influenced by magnetized equipment and does not work correctly, turn the Movie Camera off, remove the Battery or disconnect the AC Adaptor and insert the Battery or connect the AC Adaptor again. Then turn the Movie Camera on.

Do not use the Movie Camera near a radio transmitter or high-voltage power line.

 If you record near a radio transmitter or high-voltage power line, the recorded picture and sound may be adversely influenced.

Do not use the Movie Camera for surveillance and other Industrial applications.

- If the Movie Camera is being used for a long time, the inside temperature could rise excessively and this may cause malfunction
- . This Movie Camera is not designed for industrial use.

Take care that no sand and fine dust enters the Movie Camera when using it on a beach or similar places.

 Sand and dust could damage the Movie Camera and cassette. (Be careful when inserting and removing the cassette.)

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Take care not to drop the Movie Camera when carrying it.

- Strong shocks could damage the body of the Movie Camera and cause malfunction.
- When carrying, hold the Movie Camera by the Grip Belt or Shoulder Strap and handle it with care.

Do not spray insecticide or volatile agents on the Movie Camera.

- Such agents could deform the body and cause the surface coating to peel off.
- Do not leave the Movie Camera in direct contact with rubber or plastic products for a long time.

Do not use benzine or thinner for cleaning.

 They could deform the body and cause the surface coating to peel off.

- Before cleaning, remove the Battery or unplug the AC Mains Cable from the AC mains socket.
- Wipe the Movie Camera with a soft, clean cloth. To remove persistent stains, wipe with a cloth moistened with mild detergent diluted with water, and then finish with a dry cloth.

After use, always take out the cassette and remove the Battery or unplug the AC Mains Cable from the AC mains socket.

- If you leave the cassette in the Movie Camera, the tape can become loosened and damaged.
- If you leave the battery in the Movie Camera for a long time, the voltage level may drop very low so that the Battery cannot be used any more even after charging.

■ Condensation

Determining Whether Condensation Has Formed Inside and Remedy for Condensation

If the Condensation Indication flashes after you turn on the Movie Camera, condensation has formed inside the Movie Camera. In this case, the Movie Camera automatically switches off after a few seconds. Remedy as follows:

1 Take out the cassette.

All other functions do not work. Depending on the amount of condensation, it may not be possible to take out the cassette. In this case, wait 2 - 3 hours before taking out the cassette.

2 Leave the Cassette Compartment open and wait for 2 - 3 hours.

The required time depends on the amount of condensation and the ambient temperature.

3 After 2 - 3 hours, turn the Movie Camera on and check if the Condensation Indication is not displayed.

Even if the Condensation Indication is no longer displayed, wait 1 more hour for added safety before using the Movie Camera again.

Pay Attention to Condensation Even Before the Condensation Indication Appears.

- As condensation forms gradually, the Condensation Indication may not appear for the first 10 - 15 minutes after the condensation has formed inside.
- In an extremely cold place, the condensation could freeze and turn into frost. In such a case, it takes an additional 2 - 3 hours for the frost to first melt into condensation and then to be dissolved.

Remedy for a Fogged-up Lens

Set the [POWER ON/OFF] Switch to [OFF] and leave the Movie Camera in this condition for about 1 hour. When the lens has reached about the same temperature as its surroundings, it automatically clears up.

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■ Video Head Clogging and Remedy

If the video heads (which contact the tape) are dirty, the playback picture contains rectangular blocks of picture noise or the whole screen becomes blue. If they are very dirty, the recording performance deteriorates and in the worst case, recording may not be possible at all.

Causes of Dirty Video Heads

- · A lot of dust in the air.
- · High-temperature and high-humidity environment.
- Damaged tape.
- Long-time use.

Periodic Inspection

To ensure optimum picture quality, we recommend that you have worn out parts such as video heads replaced after approximately 1000 hours of use. (However, this depends considerably on the conditions of use such as temperature, humidity and dust.)

■Optimum Use of the Battery

Special Characteristics of the Battery

This Battery is a rechargeable lithium-ion battery. Its ability to generate electric energy is based on an internal chemical reaction. This reaction is easily influenced by ambient temperature and humidity, and the useful operation time that the Battery can provide becomes shorter at high and low temperatures. When used in extremely cold surroundings, the Battery may only be able to provide approximately 5 minutes of operation time. If the Battery becomes extremely hot, a protection function is activated and prevents the use of the Battery for some time.

After Use, Always Take Out the Battery.

Be sure to remove the Battery from the Movie Camera. (If it is left in the Movie Camera, a small amount of electric current is consumed even if the Movie Camera is turned off.) Leaving the Battery inserted in the Movie Camera for a very long time could cause it to become excessively discharged, so that it cannot be used any more even after charging.

Discarding a Battery That Has Become Unusable

- . The usable life of the Battery is limited.
- Do not throw the Battery in a fire because it could exclude.

Keep the Battery's Terminals Clean.

Be careful that the terminals (the two small round openings) do not get plugged up with dust, dirt or other substances.

If you accidentally drop the Battery, confirm that the Battery itself and the terminals are not deformed. Inserting a deformed Battery in the Movie Camera or attaching it to the AC Adaptor could damage the Movie Camera or the AC Adaptor.

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Before Storing the Movie Camera, Take out the Cassette and Remove the Battery.

Store all equipment in a dry place where the temperature remains relatively constant.

(Recommended temperature is 15°C - 25°C and recommended relative humidity is 40% - 60%.)

Movie Camera

· Wrap it with a soft cloth to prevent dust from entering.

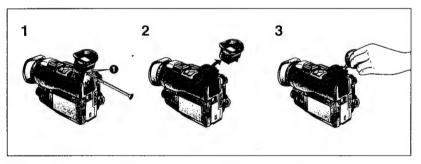
Battery

- Extremely low or high temperature shortens the Battery
 Iffo.
- Storing it in places with oily smoke and a lot of dust could cause the terminals to get rusty, and this can result in malfunction.
- Do not allow metal objects (such as necklaces and hair pins) to touch the battery terminals. Shortcircuiting may occur and generate heat, and touching it in this condition could inflict serious hurse.
- Store the Battery in discharged condition. If you store the Battery for a long time, we recommend that you charge it once a year and completely use up the charge before storing it again in discharged condition.

Cassette

- Rewind the tape to its beginning before storing.
 Leaving the cassette with the tape stopped halfway for more than 6 months (depending on the storing condition) loosens the tape. Be sure to rewind it to the beginning.
- Put the cassette in its case to store it.
 Dust, direct sunlight (ullraviolet rays) and humidity could damage the tape. Dust contains hard mineral particles and cassettes with dust damage the video heads and other parts of the Movie Camera. Make it a habit to always put the cassette back into its case.
- Completely wind the tape forward and then rewind it once every half year. Leaving the cassette for more than a year without winding/rewinding it may deform the cassette because of swelling and shrinking of the tape due to changes in temperature and humidity. Also, the tape may stick together.
- Do not place the cassette near strongly magnetized objects or equipment.
- The tape surface is coated with microscopic magnetic particles and they record signals. Such objects as magnetic necklaces and toys have stronger magnetic force than commonly thought, and this could erase the recorded contents and cause noise in picture and sound.

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LCD Monitor and Lens Hood

LCD Monitor

24

- In places where big changes in temperature occur, condensation may form on the LCD Monitor. Wipe it with a soft, dry cloth.
- When the Movie Camera is very cold when it is turned on, the picture on the LCD Monitor is initially a little darker than normally. However, as the internal temperature rises, the LCD Monitor regains its normal brightness.
- Extremely high precision technology is employed in producing the LCD Monitor. The result is more than 99.99% effective pixels with a mere 0.01% of the pixels inactive or always lit.

Lens Hoo

 If you want to attach a filter from the Filter Kit (optional), be sure to first remove the Lens Hood.
 However, during recording in the Cinema Mode with a filter attached, the four corners of the picture may become dark (vignetting effect), when you push the [W/T] Zoom Lever toward [W].

■ Cleaning the Finder

If dust has entered the Finder, clean it in the following way:

- 1 Unscrew the screws ().
- 2 Remove the Eyecup.
- 3 Remove the dust with a blower brush (not supplied).
- 4 Reattach the Eyecup.
- 5 Tighten the screws 1.

■ Repeat Playback

 If you keep the Playback Button [▶] pressed for more than 5 seconds, the Movie Camera switches over to the Repeat Playback Mode and the [RI⊳] Indication appears. (To cancel the Repeat Playback Mode, set the [POWER ON/OFF] Switch to [OFF].)

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Glossarv

■ Digital Video System

In the digital video system, picture and sound are converted into digital signals and recorded onto the tape. This completely digital recording allows recording and playback of picture and sound with minimum quality deterioration.

In addition, such data as Time Code, Date and Time are also automatically recorded as digital signals.

Features

- Superior picture resolution
- · Excellent signal-to-noise ratio
- · Stable pictures
- Minimised quality deterioration in dubbing
- · Minimised cross colour distortion
- PCM digital sound
- No picture deterioration in LP Mode
- 6.35 mm-wide tape
- · Compact cassette with long recording time
- Minimised quality deterioration in editing
- Time Code editing

Compatibility with S-VHS or VHS Cassettes

As this Movie Camera uses a digital method for recording picture and sound, there is no compatibility with conventional S-VHS or VHS video equipment using analog recording methods.

In addition, the size and shape of the cassette are completely different.

Compatibility with Output Signals

As the video and audio signals output from the audio and video output sockets are analog — the same as in conventional video systems — you can connect this Movie Camera to your S-VHS or VHS VCR or TV for playback.

PCM Digital Sound

For recording of the sound, this Movie Camera offers the choice between two different PCM Audio Recording Modes.

- 16 bit, 48 kHz, 2 channels
- 12 bit. 32 kHz. 4 channels

The "16 bit, 48 kHz, 2 channels" Mode offers superior recording sound quality.

The "12 bit, 32 kHz, 4 channels" Mode lets you record the original sound in stereo on two channels and the dubbed sound in stereo on two separate channels.

Sub Code

The digital recording system offers the added capability of recording sub code containing various data. The following data is recorded as sub code on this Movie Camera:

- Time code
- · Recording date and time
- Index signals for locating still images recorded in the Photoshot Mode
- Index signals for locating the beginning of scenes marked with index signal

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■ Focus

If you look at an object through a magnifying glass and move it closer or further away from your eye, you will reach a point where the object becomes clearly visible. Being focused or in focus means that the subject can be seen with optimum clarity and sharpness.

Human Eyes

Human eyes have lenses as well, and when we look at objects at different distances, the shape of these lenses changes automatically so that we can always see these objects clearly.

Movie Camera

The image of the subject enters the Movie Camera through the lens and is converted into an electric signal (video signal) for recording onto magnetic tape. The focus is adjusted either manually or automatically by moving a focusing lens.

Auto Focus Adjustment

The Auto Focus System automatically moves the internal focusing lens forward or backward and adjusts the focus so that the subject can be seen clearly.

The Auto Focus Adjustment has the following characteristics:

- It adjusts until the vertical contours of the subject are as sharp and clean as possible.
- \bullet It adjusts the focus on the subjects with strong contrast.
- It adjusts the focus on the subject in the centre of the LCD Monitor or Finder.

Unlike human eyes, the lens of the Movie Camera cannot instantaneously change the focus from a nearby to a distant subject and vice versa.

For the following subjects and recording situations, the Auto Focus System cannot provide precise adjustment. Use the Manual Focus Mode instead. (→ 36)

- Recording subjects with a part of it near the Movie Camera and another part far away from it As the Auto Focus adjusts on the centre part of the image, it is often impossible to bring the nearby and distant parts of the subject into focus. When you want to record a person with a distant mountain in the back, it is not possible to focus on
- A Recording subjects behind glass covered with dirt or dust

As the focus is adjusted on the dirty glass, the subject behind the glass is out of focus. When recording a subject across a street on which cars are running, the focus may be adjusted on the cars.

Recording subjects in dark surroundings As the amount of light information entering through the lens is greatly reduced, the Movie Camera cannot adjust the focus precisely.

 Recording subjects surrounded by objects with shiny surfaces or much light reflection As the Movie Camera adjusts the focus on objects with shiny surfaces or much light reflection, the subject may go out of focus. Therefore, when recording at a lake or the sea. evening scenes, fireworks, or under special types of

lighting, the subject may be out of focus.

Recording fast-moving subjects

As the internal focusing lens is moved mechanically. it cannot follow fast-moving subjects without delay. Therefore, subjects like children running back and forth may temporarily go out of focus.

Subjects with weak contrast

As the Movie Camera adjusts the focus based on vertical contours in the picture, subjects with little contrast such as a white wall may be out of focus.

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■ White Balance Adjustment

While most recording with a Movie Camera is probably done outdoors under sunlight, video recording is also done very often under artificial light sources, both indoors and outdoors. However, each of these light sources gives the subject slightly different colours.

Human Eves

Human eyes can easily adjust to different kinds of lighting and see an object with the same colours even under different lighting.

Movie Camera

Unlike human eyes, the Movie Camera does not have the innate ability to adapt to changes in lighting, and they influence the colours being recorded. Therefore, depending on the light source, the picture would be recorded with a bluish or reddish tint. To minimise the influence of the lighting on the colours of the subject, an adjustment called White Balance Adjustment is necessary.

White Balance Adjustment

The White Balance Adjustment determines the colour of the light and adjusts the colours so that white remains pure white. As white is the basic colour of the entire colour spectrum, if white is reproduced correctly, the other colours are correct and natural, too.

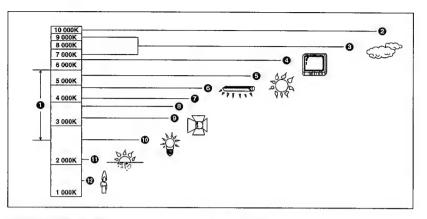
Auto White Balance Adjustment

This Movie Camera stores the optimum settings for several common light sources in memory. The Movie Camera judges the recording situation by determining the tint of the light received through the lens and by the White Balance Sensor (→ 14), and it selects the setting for the most similar tint. This function is called Auto White Balance Adjustment.

However, as the white balance settings for only a few light sources are stored in memory, the white balance is not correctly adjusted for other lighting conditions.

For the range of different types of lighting within which the Auto White Balance Function can provide precise adjustment, refer to the chart (+ 160). For recording under lighting conditions outside this range, the Auto White Balance Function does not work correctly, and the recorded picture has a red or blue cast. However, the same also applies, if the subject is lit by more than one light source, even if these light sources are within this

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■ Colour Temperature

Every light source has its own colour temperature measured in Kelvin (K). The higher the Kelvin value, the more bluish the light; the lower the value, the more reddish the light. The Kelvin value is related to the tint of the light, but not directly to its brightness.

The range 1 indicated in the illustration above shows the light sources for which this Movie Camera can provide precise white balance adjustment and, therefore, natural colours in the recorded pictures, when using the Full Auto Mode. For light sources outside this range, adjust the white balance manually (→ 84), Also, additional lighting may be necessary.

- Control range of this Movie Camera's Auto White Balance Adjustment Mode
- A Blue sky
- O Cloudy sky (Rain)

Time Code

Time Code signals are the data which indicates the time in hours, minutes, seconds and frames (25 frames/sec). Having this data included in the recording gives every single picture on the tape its own address.

- . The time Code is automatically recorded as part of the sub code with every recording you make.
- When you insert a new (previously unrecorded) cassette, the Time Code automatically starts from zero. If you insert a recorded cassette, the Time Code continues where the time code of the last previous scene stopped. (In this case, the zero indication [0h:00m:00s:00f] may appear after inserting the cassette, but when the recording starts, the Time Code records from the previous value.)
- You cannot reset the Time Code to zero.
- In playback modes other than the Normal Playback Mode, the Time Code may not be displayed (or not be correct)
- · Unless the Time Code is recorded continuously from the beginning of the tape, precise editing may not be possible. To ensure that the Time Code is recorded without interruption, we recommend that you use the Camera Search Function (→ 58) or Blank Search Function (+ 60) before starting to record a new scene.

■ Memory Stop Function

The Memory Stop Function is convenient for the following operations.

- TV screen
- Sunlight
- White fluorescent lamp
- 2 hours after sunrise or before sunset
- 1 hour after sunrise or before sunset
- Halogen light bulb
- (n) Incandescent light bulb
- Sunrise or sunset
- Candlelight

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Rewinding or fast-forwarding the tape to a desired position

- 1 Reset the Tape Counter at the tape position from which you want to play back later. (→ 130)
- 2 Set [DISPLAY] on the Menu to [MEMORY]. (→ 126-132)
- 3 Start playback or recording. 4 After playback or recording is finished: Press the [VCR/CAMERA] Button so that the [VCR] Lamp lights.
- 5 Rewind the tape.

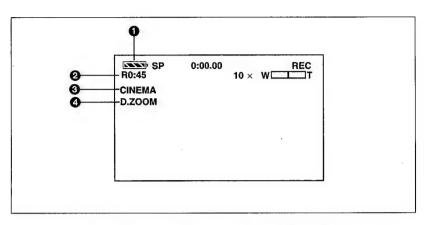
The tape automatically stops approximately at the position at which you reset the counter to zero.

Stopping the editing automatically in the audio dubbing

- 1 Reset the Tape Counter to zero at the tape position at which you want the editing to
- 2 Set [DISPLAY] on the Menu to [MEMORY]. (→ 126-132)
- 3 Play back a still picture at the point at which you want the audio dubbing to start.
- 4 Start the audio dubbing.

The audio dubbing automatically stops approximately at the position at which you reset the counter to zero.

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Indications on the LCD Monitor/in the Finder

Remaining Battery Power

As the remaining battery power decreases, the indication changes as follows: NEWS) → NEWS → NEWS → NEWS → NEWS When the battery is completely discharged, the () Indication flashes. (When you are using the AC Adaptor, the Indication may appear, however, this has no meaning in this case.)

Remaining Tape Time

The remaining tape time is displayed in minutes. (When it becomes less than 3 minutes, the indication starts to flash.)

. If a recording lasts less than 15 seconds, the Remaining Tape Time cannot be displayed

. The displayed remaining tape time may be shorter than the actual remaining tape time.

Cinema Mode (→ 42)

When recording in the Cinema Mode, this indication is displayed.

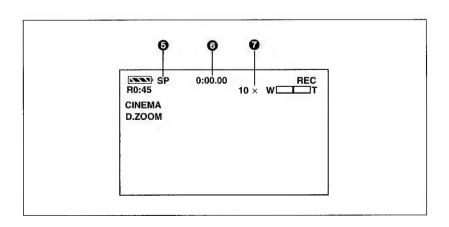
② Digital Zoom (→ 38)

When the Digital Zoom Function is activated, this indication is displayed.

Digital Effects (→ 74)

When a digital effect is activated, the corresponding indication is displayed.

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Recording Speed Mode (→ 24)

The selected Recording Speed Mode is displayed. SP: Standard Mode

LP: Long-play Mode

(a) Tape Counter, Time Code (→ 170)

The Tape Counter, Memory Stop Function or Time Code Indication is displayed.

Zoom Magnification (→ 38)

When you push the [W/T] Zoom Lever up or down. the Zoom Magnification Indication and the Zoom Gauge are displayed.

Recording Mode

(→ 30, 36, 70, 82, 84, 86, 88, 90)

This appears when the Mode

Selector Switch is set to the [AUTO]

position.

MNL:

This appears when the Mode Selector Switch is set to the [MNL]

AE LOCK:

This appears when the Mode Selector Switch is set to the [AE LOCK] position.

Digital Image Stabilizer (→ 44)

When the Digital Image Stabilizer

Function is activated, this indication

is displayed.

Audio Recording Mode (→ 96)

The indication of the Audio 12bit/16bit:

Recording Mode that was selected for recording is displayed during

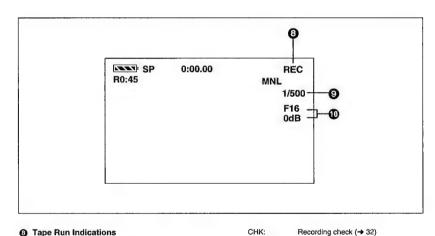
playback.

All Photoshot Pictures Printing (→ 120)

AUTOPRINT: This indication is displayed when the

Auto Print Function is being used.

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Tape Run Indications

DDI/KKI

Recording (→ 30) REC: PAUSE: Recording Pause (→ 30)

Playback (→ 46)/Camera Search in D:

forward direction (→ 58)

4: Carnera Search in reverse direction

(→ 58)

11: Still playback (→ 52)

DD: Fast-forward/Cue playback (→ 48) 44. Rewind/Review playback (→ 46, 48)

Slow playback in forward direction/ ID / ⊲I:

Slow playback in reverse direction

(* 50)

110 / 411: Still Advance playback in forward

direction/Still Advance playback in

reverse direction (→ 52) Index Search in forward direction/

Index Search in reverse direction

(+ 64, 66)

BLANK: Blank Search (→ 60) Repeat playback (→ 150) RD: When recording with the LCD Monitor facing forward

(→ 40)

Audio dubbing (→ 96)

Audio dubbing pause (→ 96)

Recording in the Photoshot Mode

using the Mirror Mode, only the Remaining Battery Power Indication, the Recording Indication [] and the Recording Pause Indication [] are displayed.

Shutter Speed

A.DUB▷:

A.DUB II:

PHOTO:

It appears when you manually adjust the shutter speed. (→ 86)

Iris Value (F Number)/Gain-up Value These two indications appear together when you manually adjust the iris and gain. (→ 88)

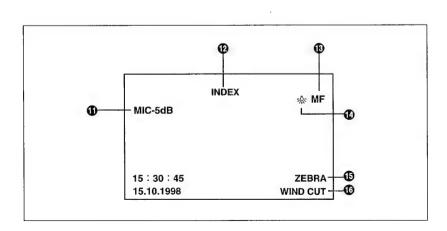
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Changing the Indications

By changing the setting for [DISPLAY] on the Menu (→ 126-132) or by repeatedly pressing the [DISPLAY] Button on the Remote Controller (+ 100), the Counter Display Mode can be changed in the order shown in the above illustrations (1) to (4):

- (1) Tape Counter Indication
- Tape Counter Indication with activated Memory Stop
 Indication
- (3) Time Code Indication
- No Indication (In this mode, only the Tape Run Indications, Warning/Alarm Indications, Date/Time Indications, Programme AE Mode Indications, Manual Focus Mode Indications. White Balance Mode Indications, and Zoom Magnification Indication can be displayed.)

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Microphone Sensitivity Level

This indication shows the selected microphone sensitivity for recording. When it is displayed in red, it indicates that the sound being recorded is distorted. If you set [MIC LEVEL] on the Camera Mode Menu (→ 128), or [AUDIO DUB] on the VCB Mode Menu (→ 132) to [AUTO], the Microphone Sensitivity Level Indication does not appear.

INDEX: The [INDEX] Indication flashes for a few seconds while an index signal is being recorded.

Search Number (→ 66)

The figure indicates which number of scene ahead from the present scene is to be played back.

Manual Focus (→ 36)

if you select the Manual Focus Mode, the [MF] Indication is displayed.

When the Movie Camera is in the Auto Mode, this indication is not displayed.

White Balance Mode (→ 82)

The White Balance Mode offers the following possible settings:

Indoor (Incandescent Lamp) Mode Outdoor Mode

Lock Mode **№**2:

When the Movie Camera is in the Auto Mode, none of the above 3 indications are displayed.

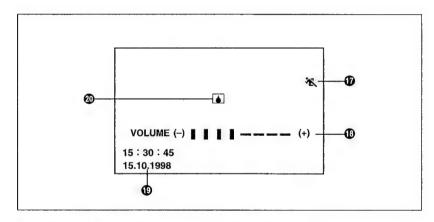
(B) Zebra Pattern

If you set [ZEBRAPATT] on the Menu (→ 128) to [ON], the [ZEBRA] Indication is displayed.

Wind Buffer [WIND CUT]

If you set [WIND CUT] on the Menu (→ 130) to [ON]. the [WIND CUT] Indication is displayed.

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Programme AE Mode (→ 70)

The Programme AE Function offers the following settings:

*: Sports Mode **2**3 Portrait Mode Low Light Mode

Sound Volume (→ 46)

Use this indication to adjust the volume of the playback sound from the built-in speaker. With the [VCR] Lamp lit, keep the [PUSH] Dial pressed until the [VOLUME] Indication appears. Then turn the [PUSH] Dial to adjust the volume.

Date and Time (→ 46)

The time is indicated in the 24-hour system.

@ Warning/Alarm

When any of the following indications lights or flashes, confirm the condition of the Movie Camera.

(Condensation has occurred. (→ 144) The erasure prevention slider of the 669:

inserted cassette is closed (set to

(SAVE)).

No cassette is inserted. æ: The built-in battery is discharged.

(→ 136)

3: The heads are dirty.

জ্ঞাEND: During recording, the tape has reached

REMOTE: Wrong Remote Controller Mode is

selected. (→ 108)

PRINTER

ERROR: This indication is displayed if you set [AUTOPRINT] on the Menu to [ON] when

no printer is connected to the Movie Camera.

Before Requesting Service (Problems & Solutions)

Power Supply

- P1: The Movie Camera does not turn on.
- : Is the Battery or the AC Adaptor connected correctly? Confirm the connection. (→ 16)
- P2: The Movie Camera has turned off
- S2: If you leave the Movie Camera in the Recording Pause Mode for more than 6 minutes, it automatically switches off to protect the tape and to conserve battery power. (+> 30)
- P3: The Movie Camera guickly turns off.
- S3-1: Is the Battery discharged? When the Remaining Battery Power Indication is flashing or the [_____] Indication is displayed, the Battery is discharged. Charge the Battery or insert a fully charged Battery. (→ 18, 164)

S3-2: Has condensation formed? If the Movie Camera is brought from a cold to a warm place, condensation may form inside. In this case, the Movie Camera automatically switches off and no operation can be performed except taking out the cassette. Wait until the Condensation Indication disappears. (+) 144)

Battery

- P1: The Battery discharges quickly.
- S1-1: Is the Battery fully charged? Charge it until all 4 Charge Lamps on the AC Adaptor light. (→ 18)
- S1-2: Are you using the Battery in a place where the temperature is very low? The ambient temperature greatly influences the Battery's performance. Its operation time becomes shorter in a cold place. (→ 146)
- S1-3: Has the Battery reached the end of its service life? The service life of the Battery is limited. It depends on the way the Battery is used, but when the operation time even after proper charging is too short for normal use, the service life of the Battery has reached its end.

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Normal Recording

- P1: Recording cannot be started even though the Movie Camera is supplied with power and the cassette is inserted correctly.
- S1-1: Is the erasure prevention slider of the cassette open? If it is open (set to [SAVE]), recording is not possible. (→ 22)
- S1-2: Has the tape reached its end? Insert a new cassette. (→ 22)
- S1-3: Is the Movie Camera turned on? (→ 30)
- S1-4: Is the [VCR] Lamp lit? If it is lit, recording is not possible. (→ 46)
- S1-5: Is the Condensation Indication [♠] displayed?
 When condensation has formed, no functions except taking out the cassette can be operated.
 Wait until the Condensation Indication disappears.
 (→ 144)

Other Recording

- P1: The picture on the LCD Monitor/in the Finder suddenly stands still for a few seconds.
- S1-1: Did you press the [PHOTO SHOT] Button? If you press the [PHOTO SHOT] Button, a still picture is recorded for approximately 7 seconds. After approximately 7 seconds, the Movie Camera switches back to the Recording Pause Mode. (→ 40)

- S1-2: Did you press the Still Button [11]? If you press the Still Button [11], the picture stands still. Simply press this button again to return to the normal moving picture. (→ 44)
- P2: The Auto Focus Function does not work.
- S2-1: Is the Manual Focus Mode selected? If you select the Auto Focus Mode, the focus is adjusted automatically. (+> 36)
- S2-2: Is the recording subject or situation suitable for the Auto Focus Mode? The Auto Focus Function does not work correctly for some kinds of subjects and recording situations. In this case, use the Manual Focus Mode to adjust the focus. (+) 156)

Editing

- P1: Audio dubbing cannot be performed.
- S1-1: Is the erasure prevention slider of the cassette open? If it is open (set to [SAVE]), editing is not possible. (→ 22)
- S1-2: Are you trying to edit parts of the tape recorded in the LP Mode? As the tracks recorded in the LP Mode are narrower than the heads, audio dubbing is not possible. (+> 24)

Indications

- P1: The Time Code becomes incorrect.
- S1: In the Slow Motion Playback Mode in reverse direction, the counter of the Time Code Indication may not be stable, however, this is not a malfunction.
- P2: The Remaining Tape Time Indication disappears.
- S2: If you record a still picture in the Photoshot Mode, the Remaining Tape Time Indication disappears temporarily. However, if you switch the Movie Camera over to the Normal Recording Mode, it appears again.
- P3: The Remaining Tape Time Indication does not match the actual remaining tape time.
- S3-1: If scenes of less than 15 seconds are recorded successively, the remaining tape time is not indicated correctly.
- S3-2: The Remaining Tape Time Indication may show a remaining tape time that is 2 3 minutes shorter than the actual remaining tape time.

Playback (Picture)

P1: No playback picture is reproduced when pressing the Play Button [▶].

- S1: Did you press the [VCR/CAMERA] Button so that the [VCR] Lamp lights? When the [VCR] Lamp is not lit, no playback functions can be operated.

 (+46)
- P2: Mosaic-like patterns appear in the picture during Cue. Review or Slow Motion Playback.
- S2: This phenomenon is a characteristic of the digital video system. This is not a malfunction. (→ 48)
- 3: I want to play back the picture on a TV.
- S3: If you attach the Output Terminal Box [AV ONE TOUCH STATION] to the Movie Camera, you can connect the Movie Camera to a TV. (→ 54)
- P4: The Movie Camera is correctly connect to a TV, but no playback picture is reproduced.
- S4: Did you select "Video Input" on the TV? Carefully read the operating instructions for your TV and select the channel that matches the input sockets used for connection.
- P5: The playback picture is not reproduced clearly.
- S5: Are the video heads on the Movie Camera dirty? If the video heads are dirty, the picture cannot be played back clearly.

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Playback (Sound)

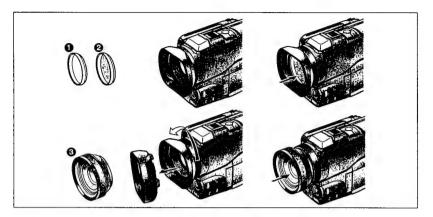
- No sound is played back from the Movie Camera's built-in speaker.
- S1: Is the volume set too low? With the [VCR] Lamp lit, keep the [PUSH] Dial pressed until the [VOLUME] Indication appears. Then turn the [PUSH] Dial to adjust the volume. (4 46)
- P2: Different sounds are played back together.
- S2: Is [AUDIO OUT] set to [MIX] on the VCR Mode Menu? If you have performed audio dubbing on a cassette for which you set [AUDIO REC] to [12bit] for recording, the original sound and the sound dubbed with audio dubbing are played back together. It is also possible to play them back individually. (→ 98)
- P3: The original sound was erased by performing audio dubbing.
- S3: If you perform audio-dubbing on a recording made in the [16bit] Mode (→ 96), the original sound is erased. If you want to keep the original sound, be sure to select the [12bit] Mode for the original recording.

Others

P1: The cassette cannot be taken out.

- S1: Is the Movie Camera supplied with power? Is the AC Adaptor correctly connected or the Battery correctly inserted? To remove the cassette, the Movie Camera must be supplied with power, however, it is not necessary to set the [POWER ON/OFF] Switch to [ON].
- P2: No operation except taking out the cassette can be performed.
- Is the Condensation Indication [▲] displayed? If condensation has formed inside the Movie Camera, it automatically switches off and prevents any operation except taking out the cassette. Wait until the Condensation Indication disappears. (→ 144)
- P3: The Remote Controller does not work.
- S3-1: Is the button-type battery in the Remote Controller exhausted? If the Remote Controller does not work when you use it near the Remote Controller Sensor on the Movie Camera, the button-type battery is exhausted. Replace it with a new battery. (→ 106)
- S3-2: Is the correct Remote Controller Mode selected? If the Movie Camera's setting for [REMOTE] on the Menu and the mode selected on the Remote Controller are not matched, operating the Movie Camera with the Remote Controller is not possible and the [REMOTE] Indication is displayed.

 (> 108)



Filter Kit/Wide Conversion Lens

ND Filter (ND8)

- This filter reduces the amount of light to approximately 1/8th but does not affect the colours.
- The depth of field is slightly reduced.
- White balance adjustment is possible even with either of these fillers attached. However, when using the ND Filter and recording with Auto White Balance, the white balance adjustment may not be precise. Therefore, we recommend that you use the Manual White Balance Mode when recording with the ND Filter attached.
- When you record with a filter attached and zoom to the extreme wide-angle setting, the four corners of the picture may become dark (vignetting effect).

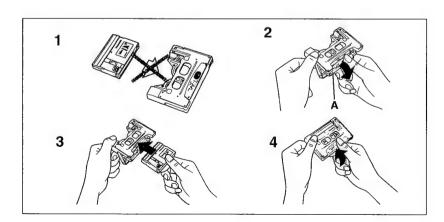
MC Protector

- Since this filter neither affects the colours nor the amount of light, it can always be left attached to protect the Movie Camera's lens.
- It reduces invisible ultraviolet rays and prevents the picture from becoming bluish.

Wide Conversion Lens

- Use the Wide Conversion Lens under bright lighting. (If used under insufficient lighting, the sharpness at the centre and near the edges of the picture may differ considerably.)
- When you record with the Wide Conversion Lens attached and zoom to the extreme wide-angle setting, the four corners of the picture may become dark (vignetting effect).

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Cassette Adaptor

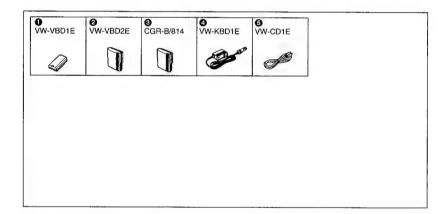
It can only be used with S cassettes bearing the DV

It can only be used to play back DV cassettes which are recorded in [MA] format.

- 1 Take care to insert the cassette in the proper direction.
- 2 Open the Cassette Adaptor.

- 3 Insert the Cassette tape.
- 4 Close the Cassette Adaptor.
- Do not subject the cassette adaptor to strong shocks or vibration as it uses precision parts. Also, do not modify or disassemble the cassette adaptor. After use, remove the DV cassette and store it in its case.
- Do not push down A (rear door) using an unnecessarily large force.

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Optional Accessories

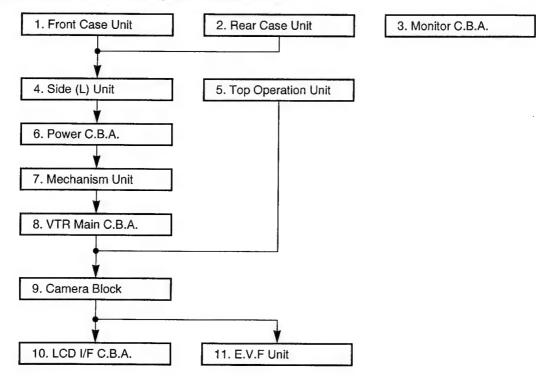
- Battery Pack (Lithium)
- Battery Pack (Lithium, Large Capacity)
- 3 Battery Pack (Lithium, Large Capacity)
- Car Battery Charger
- 6 DV Cable
- · Some accessories are not available in some countries.

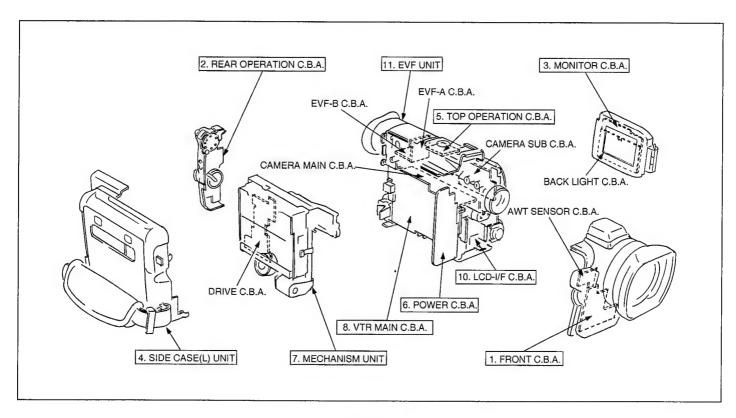
Memo

SECTION 2 ADJUSTMENT PROCEDURES

2-1. DISASSEMBLE FLOW CHART

This flow chart indicates the disassembly steps the cabinet parts, C.B.A. and Mechanism Unit in order to access to items to be serviced. When reinstalling, perform the steps in the reverse order.





2-2. DISASSEMBLY PROCEDURES

Flow-chart Disassembly procedure

No.		FIG.	REMOVAL (SCREW & Other)
1	FRONT CASE	Fig. 1	Remove the Shoe Adapter Cover.
	UNIT		4-SCREW (A/B/C)
		Fig. 2	4-SCREW (D/E/F)
			Remove the Front Case Unit.
			Disconnect the 2-Flex Cables.
			(FP4801/FP4902: Behind of Front
			Case Unit.)
2	REAR CASE	Fig. 3	7-SCREW (H/I/J/K/L)
	UNIT		Remove the Rear Case Unit.
			Disconnect the 1-Flex Cables.
			(FP6701)
			Note:
			SCREW was located under the DV
			Cover.
3	MONITOR	Fig. 4	2-SCREW (M)
	C.B.A.	Fig. 5	2-SCREW (N)
			5-CONNECTORS
			(P901/FP901/FP903/FP904/FP905)
4	SIDE CASE (L)	Fig. 6	3-SCREW (O)
	UNIT		Remove the Grip Cover.
			3-SCREW (P/Q)
			2-SCREW CAP/2-SCREWS (R)
			CASSETTE COVER
		Fig. 7	1-SCREW (S)
			Remove the Side Case (L) Unit.
5	TOP	Fig. 8	TOP OPERATION UNIT
	OPERATION		1-CONNECTOR (FP6801)
	UNIT		
6	POWER C.B.A.	Fig. 9	1-SCREW (T)
			1-SCREW (U)
			2-CONNECTORS (FP1001/PP1001)
7	MECHANISM	Fig. 10	2-SCREW (V/W) & EVR COVER
	UNIT		1-SCREW (X)
			1-CONNECTOR (PP2001)
		Fig. 11	
		- 10	2-SCREW (Y)
8	VTR MAIN	Fig. 12	
	C.B.A.		4-CONNECTORS
			(P3001/PS3001/PS3002/PP3002)
	CAMERA	Fin 10	Unlocked 1 Locking Tab.
9	CAMERA	Fig. 13	
1	BLOCK		1-CONNECTOR (FP305 from Side
10	100 1/5 0 0 1	Fin 4.4	Case (R).)
10	LCD-!/F C.B.A.	Fig. 14	
			3-CONNECTORS (From EVF/Side
			Case (R).)
11	EVF UNIT	Fig. 15	4-SCREW (f/g)
		E	SPEAKER UNIT
		Fig. 16	4-SCREW (h/i)

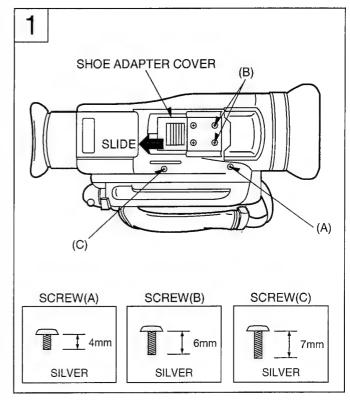


Fig. 1

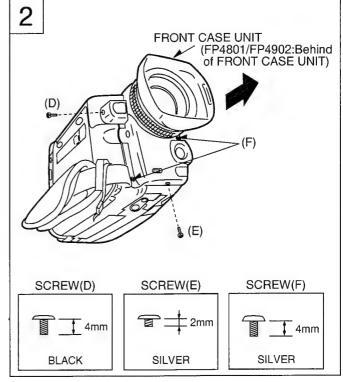


Fig. 2

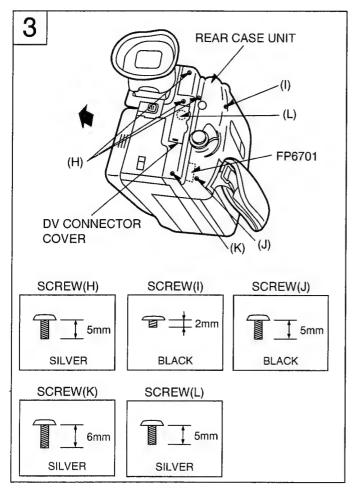


Fig. 3

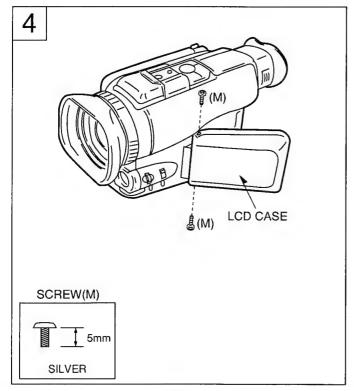


Fig. 4

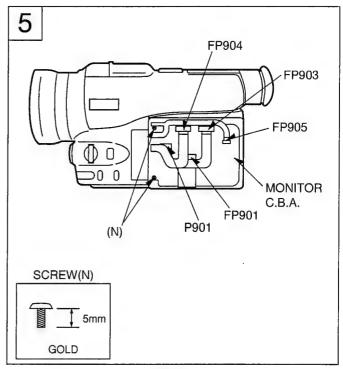


Fig. 5

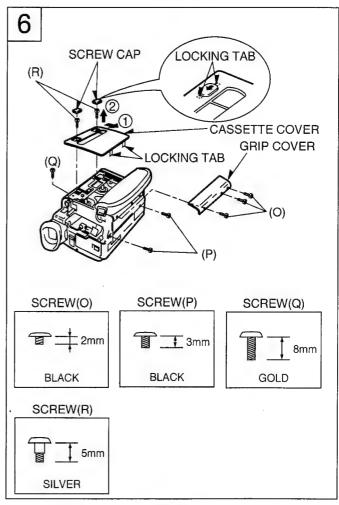


Fig. 6

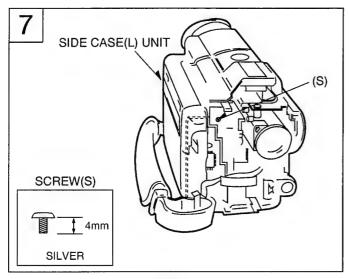


Fig. 7

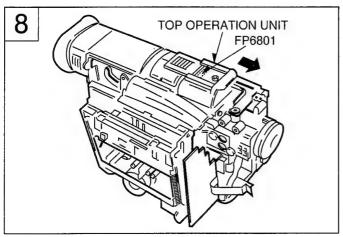


Fig. 8

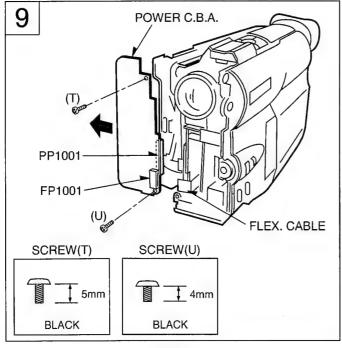


Fig. 9

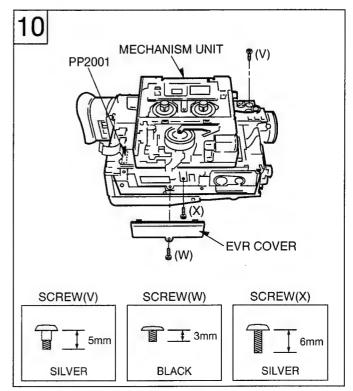


Fig. 10

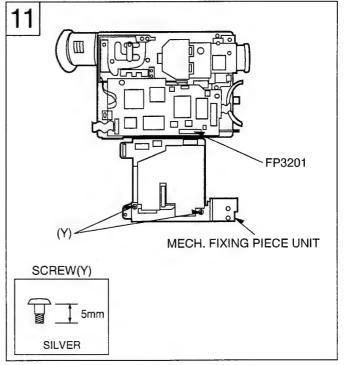


Fig. 11

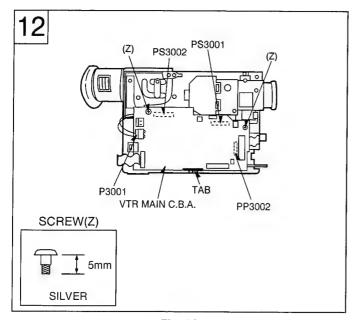


Fig. 12

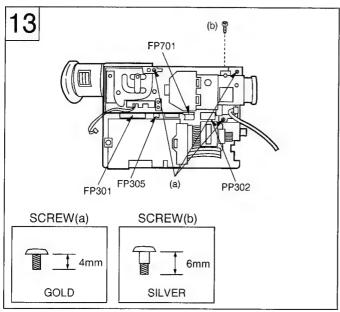


Fig. 13

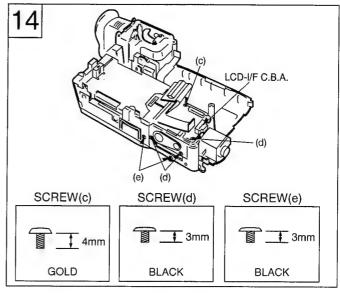


Fig. 14

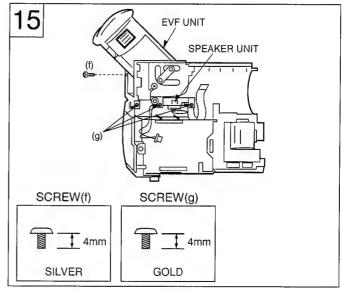


Fig. 15

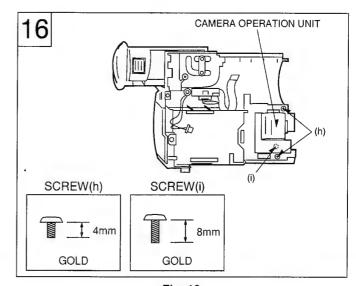


Fig. 16

SECTION 3 BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS

3-1.ABBREVIATIONS

	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS	
Α	A.TR	Auto Tracking		ATN	Absolute Track Number	
	AB0-4, AB12-15	Address Bus Line 0-4, 12-15		ATR OFF (H)	Auto Tracking Off (H)	
	ABSF	Focus Encoder Input		ATV	Advanced TV	
	ACI	Analog Channel Cording IC		AUDIO (N)	Audio (Normal)	
	AD	Auto Date, Analogue Digital Converter		AUX	Auxiliary	
	AD0-6, ADR0-6	Address Data Line		AVDD	Analogue VDD	
	ADCLK	Analogue Digital Converter Clock		AVSS	Analogue Ground	
	ADCNT	Analogue Digital Control		AWTB	Auto White Balance B-Y	
	ADCS	Analogue Digital Chip Select		AWTR	Auto White Balance R-Y	
	A-DET	Audio Detect				
	ADREC	Audio Delaied Rec	В	B/G OFF	AWT B-Offset Voltage	
ŀ	ADUB	Audio Dubbing		BACK	Back-up	
	AE	Auto Expose		BACK UP	Microcomputer Back-up	
	AECNT	Auto Expose Control		BACK VDD	Back-up Power	
	AEE (H)	Audio E-E (H)		BATT	Battery	
	AEH	Audio Erase Head		BATT ALARM	Battery Alarm	
	AEIRQ	Auto Expose Interrupt Request		BATT REF	Reference Voltage for Battery	
	AF/MF	Auto Focus/Manual Focus		всв	B Carrier Balance	
	AF DIS CS	AF DIS Chip Select		BCBM (B-Y)	B-Y Carrier Balance	
	AFADE	Audio Fade		BCBM (R-Y)	R-Y Carrier Balance	
	A-FADE (L)	Audio Fade (L)		BD 0-7	Bus Data	
	AFCS	Auto Focus Chip Select		BDCK	Standerd Bus Data Clock (9MHz)	
	AF-VN	Zoom Encoder V-Ref (-)	1	BDEN	Standerd Bus Data Enable	
	AF-VP	Zoom Encoder V-Ref (+)		BF	Burst Flag	
	AGC	Automatic Gain Control		BFA	Burst Flug for Encoder	
	AGCCNT	Automatic Gain Control Control		BFO/BFI	Burst Flug Input/Output	
	AGND	Analogue Ground/Audio Ground		BI, BO	Buffer Input, Output	
	AGS	Anti Ground Shooting		BL	Back Light	
	AH (P) / (R)	Audio Head (Play) / (Record)		BL ON	Back Light ON (L)	
	AHASW	Audio Head Amp Switch Pulse		BL4V	Back Light 4V	
İ	AHSW	Audio Head Switch Pulse		BLC 0, 1	Back Light Y Control Out, In	
	AI, AO	Buffer Input, Output	-	BLDI/O	Back Light Drive Input/Output	
	AIBCK	Bit Clock (to A/D Converter)		BLK	Blanking Pulse	
	AIDAT	Serial data (to A/D Converter)		BLKA	Blanking for Encoder	
	AILRCK	L/R Clock (to A/D Converter)	1	BLKI/O	Blanking Pulse In/Out	
1	AIMCK	Master Clock (to A/D Converter)		BLKZ	Blanking Pulse for Zoom	
	ALC CNT	Auto Level Control Control		ВМ	Balance Modulator	
	ALC MAIN	Auto Level Control Drive		BQUIET	Bus Data Quite	
	A-LOCK	Full Auto Switch		B-Y KB	B-Y Carrier Balance	
	AMUT	Audio Mute		B-YO	B-Y Signal Out	
	A-MUT (H)	Audio Mute (H)				
	ANLPTH	Analogue Loop Through High	C.	C A In/Out	Pre-Aperture In/Out	
	AORP	Audio Overlap Pulse		C CNT	Colour Control	
	APCNT	Aperture Control		C SYNC	Composite Sync Signal	
	APS	Auto Power Save		C/N	Carrier/Noise	
	ART VH	Artifical Vertical Sync	1	C0-7, C00-07	Chrominance Signal 0-7	
	AT CNT	Automatic Tracking Gain Adjust		CAGAIN	Aperture Gain Control	
	ATF	Automatic Track Finding		CAM	Camera	
	ATFCLK	41.85MHz		CAM CLK	Camera Clock	
1	ATL	Auto Lock Select		CAM RST	Camera Reset	

INITIAL/LOGO	ABBREVIATIONS	Г	INITIAL/LOGO	ABBREVIATIONS
CAM SIOC	Camera Serial In/Out Control		CO	Control Out
CAM T	Camera Test		CO0-7	Chrominance Output 0 to 7 (Digital)
CAM TL	Capstan Trque Limit		СОМ	Common
CAP EC	Capstan Trque Control		СОМВ	Comb Filter
CAP P (H)	Capstan Power On (H)		COS EQ	Cosine Equalizer
CAP R/F/S	Capstan Revers (H) /Stop (M) /Forward (L)	ı	CP	Clamp Pulse
CAP SW	Capstan Power Control Switch		CP ON (H)	Camera Power On (H)
CAPSTP H	Capstan Stop Flag (Stop High)	l	CP2, 20	Clamp Pulse
CAPVM	Capstan Motor Current		CPN	Component Signal
CAPVS	Capstan Motor Power Control Switch		СРОВ	Clamp Pulse for Optical Blanking
CAS	Compresion, Audio Process, Shuffling/Deshuffling		CPS	Composite Signal
CAS	Memory Address Strobe (Active Low)		CROUT	Pre-Aperture Out
CASDOWN, DWN	Cassette Down (L)		CR POW SW	Camera Remote Power On Switch
CBLK	Composite Blanking Pulse		CRA	Aperture Gain Control
СС	Channel Cording		CRST	Camera Reset
CCA	Current Control Amp		CS	Chip Select
CCD	Charge Coupled Devise		CS 0-7	Chrominance Signal Out 0-7
ccw	Counterclockwise		CSEL	Clock Phase Select
CD SP0-7	Digital Chrominance 0-7		CSI 0-7	Chrominance Signal In 0-7
CDS	Correlate Double Sampling Signal		CTSW	Crosstalk Switch
CDS OUT	CCD Output Signal		CURR	Current
CDS1,2	Sampling Pulse for CCD Output signal		cw	Clockwise
CE	Control Pulse Erase		CYL EC	Cylinder Motor Trque Control
CEC	Capstan Error Code	ł	CYL PG	Cylinder Motor PG
C-ERA (H)	Control Erase (H)		CYL VM	Cylinder Motor Current or Power
CFEM	Chrominance Memory Signal		0.2	Symmatri water carrett et a circi
СЕМ	Chrominance Field Memory	D	D CLK	Digital Clock
CG CLK	Character Generator Clock		D MODE	Digital Mode Switch Signal
CG DATA	Character Generator Data		D01-03	Zoom 01-03
CGC	Chrominance Gain Control		DAC	Digital Analogue Converter
СН	Charge		DAG	Digital Analogue Ground
CH1	Channel 1 (Odd Field)		DB0-7	Data 0-7
CHR	Character		DCC	DC Clamp Control
CHR BACK	Character Back-up		DCCNT	DC Control
CHR MIX	Character Mix		DCI	Digital Channel Cording IC
CI, CO	Buffer In/Out		DCLR	Digital Clear
CIF, CIR	Positive Control Pulse, Negative Control Pulse		DCP	Digital Clamp Pulse
СК	Clock		DCT	Discrete Cosine Transform (Compression)
CL/CLK	Clock		DCX7	Serial Data
CLASS	Classeffication Signal for Compress (DCT/VLC)		DEDP 0-3	Playback Data
CLK135	13.5 MHz System Clock		DEDR 0-3	Rec Data
CLK18	18 MHz System Clock		DEMP	De-Emphasis
CLK2	Clock 2 (824XFH : 12.875 MHz)		DFD0-7	Encode Input/Output Signal for Shuffling Memory
CLK27	27 MHz System Clock		DIBDCK	Bit Clock
CLX, CLX1-4	Shift Clock for X Direction (LCD Panel)		DICLK	Digital Clock
CLY	Shift Clock for Y Direction (LCD Panel)		DIDAT	Serial Data
CLY FG	Cylinder FG Signal		DILRCK	L/R Clock
CMEM0-3	Chrominance Memory 0-3		DIMCK	Master Clock
CMIX	Character Mix		DIOS	Select Signal for Digital In/Out
СМО	Chrominance Memory Output		DIS	Digital Image Stabilizer
CMODE	Camera Mode		DIS R/B	Digital Image Stabilizer Read (H) /Busy (L)
CNCLK	Clock		DIS/KAND	Digital Image Stabilizer/Sensitivity
CNR	Chrominance Noise Reduction		DISCS	Dis Chip Select
CNT, CONT	Control		DISP	Display

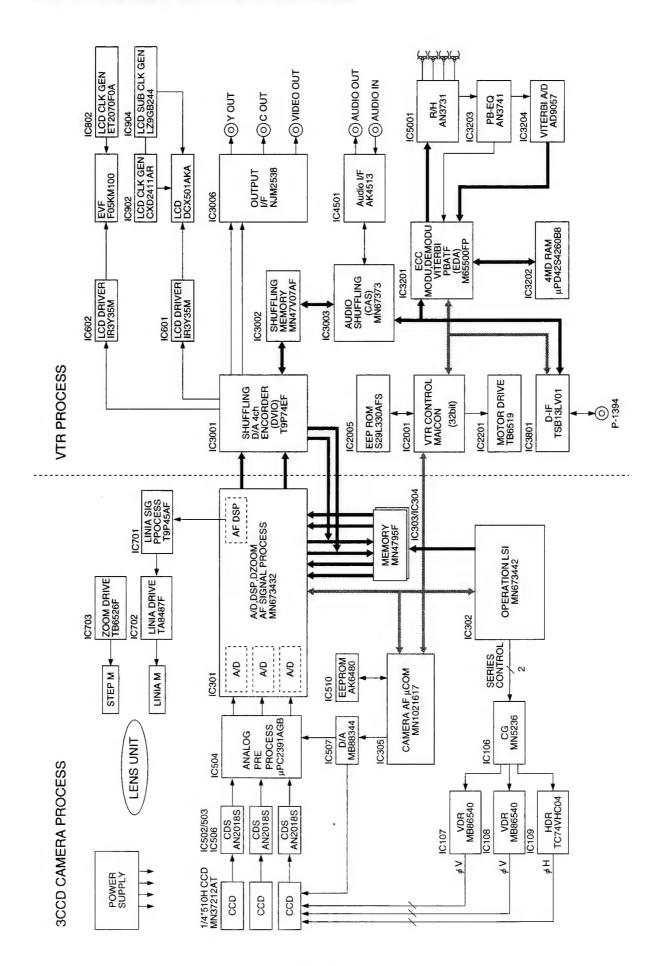
	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
	DL	Delay Line		FCO	Saw Tooth Signal Generator
	DOBCK	Bit Clock (to D/A Converter)		FENC	Focus Encoder
	DOCTL.	Data Output Control		FEND	Frame End Pulse
	DODAT	Serial Data (to D/A Converter)		FH2B	FH/2 (15.625 KHz/2 = 7.8125 KHz)
	DOLRCK	L/R Clock (to D/A Converter)		FIX OSD	Auto Tracking Off (H)
	DOMCK	Master Clock (to D/A Converter)		FM	Field Memory
Ì	DQ 1-16	Memory Data		FM0-7	Field Memory 0 - 7
	DRK	Dark (LPF Switch for Auto Focus)		FMCI0-3	Field Memory Chrominance In 0-3
	DS	Double Sampling Pulse		FMCO0-3	Field Memory Chrominance Out 0-4
	DS1, 2	Double Sampling Pulse		FMDIR	Focus Motor Direction
	DSF 0-7	Input/Output Data to Shuffling Memory (18 MHz)		FMOEM	Field Memory Enable
	DSP	Digital Signal Processor		FMOEO	Field Memory Enable
	DSV	Digital Sum Variation		FMT1-4	Focus Motor Terminal 1-4
	DV	Digital Video		FMY00-07	Field Memory Luminance Out 0-7
	DVB	Digital Video Broadcast		FMYI0-07	Field Memory Luminance In 0-7
	DVC	Digital Video Cassette		FNO	F Value
	DVDD	Digital VDD		FPS	Frame Refference Signal
	DVIO	Digital Video Input Output		FR	Capstan Reverse High
Ш	DVSS	Digital Ground		FRP	Frame Refference Pulse
	DX	Shift Data for X Direction (for LCD)		FRP	Frame Start Pulse
	DY	Shift Data for Y Direction (for LCD)	1	FRPSO	Frame Start Pulse
	DZ	Digital Zoom			
Ш		·	G	G1,G2,G3	Gap 1, 2 and 3
E	E Snap	Electric Snap Shot		GCA	Gain Control AMP
	E ZM	Electric Zoom		GCNT	Gain Control
	E2P	EEPROM		G-CNT	AGC Adjustment
	EARP	Earphone		GCTRL	Gain Control
	EC	Error Control		GENE	Generator
	EC	Torque Control		GF	FG AMP Terminal
	ECC	Error Correction Cording		GSW	Ground for Switching Power
	ECM	Electric Condencer Mic			
	ECR	Reference Voltage for Capstan Torque	Н	H/M/N	Hi-Fi/Mix/Normal
	EDA	Error Correction, DCI, ATF Servo		H/N	Hi-Fi/Normal
	EE CS	EEPROM Chip Select		H1,2	H. CCD Drive Pulse
	EE R/B	EEPROM Read (H) /Busy (L)		HAP	Horizontal Aperture
	EEPROM	Electric Erasable Programable Read Only Memory		HASW	Head AMP Switching Pulse
	EIS	Electric Image Stabilizer (DIS)		НВ	Hall Bias
	ENV	Enverope		HBR SET	High Brightness Set
	EOB	End Of Block		HBRST	High Brightness Set
	EQ	Equalizer		HCLR	High Clear
	EVF	Electric View Finder		HCP	Shift Clock for Horizontal Drive
	EXT DC	External DC (AC Adaptor)		HD	Horizontal Drive Pulse
	EXT DC (H)	AC Adaptor DC (H)		HDTV	High Definition TV
	EXT NOREG	AC Adaptor 6V		HEX	Hexadecimal
	EXT S DATA	Serial Data for Edit		HG	Hall Gain
	EXT SCK	Serial Clock for Edit		HID	Head Switching Pulse
	EZOOM	Electric Zoom		HLT	High Bright Signal
				HOLE IN (+), (-)	Input Signal from Hall IC
F	F	Far (Focus)		HP	Headphone
	F ENC	Lens F-Value		HPF	High Pass Filter
	FACT MODE	Factry Mode (not used in the service)		HSE	Modulated Data Output
	FB	Feed Back		HSS	Horizontal Sinc Signal
	FC	Saw Tooth Signal In		HSW	Head Switching Pulse
	FCK	Clock		HS-WT	High Speed Zoom

Г	INITIAL/LOGO	ABBREVIATIONS	Т	INITIAL/LOGO	ABBREVIATIONS
	HSZ	High Speed Zoom	+	MIG	Metal In Gap
				MIX N.R.D.	Non Rec Data Mix
\Box	I/F	Interface	1	MOD	Modulation
	I-2 C	Inter Integrated Circuit		MOUT	Mic Out
	ID (H)	Wide Television (H)	ı	MP (TAPE)	Metal Particle (Tape)
	IMP	Inter Microprocessor Protocol		MPEG	Moving Picture Image Cording Experts Group
	INF	Input Frame Signal		MPEG2	Moving Picture Image Cording Experts Group Phase 2
İ	INF	CCD Input Signal 1		MRST	Focus Motor Reset
1	INS	CCD Input Signal 2		MSB	Most Signal Bit
1	INTER	Interval Recording		MVSYNC	Monitor Vertical Sync Signal
	INV	Inverter		I III VOING	World Vertical Cyric Cignal
	IOU	R-Y Analogue Signal Output	N	N	Near (Focus)
	IOV	B-Y Analogue Signal Output	'`	N/F	Near/Far Focus
	IOY	Y Analogue Signal Output		N/P	NTSC/PAL
	IR	Infrared Rays		NB1-3	Base for NPN Transistor
	IRDET	Infrared Rays Detection		NC	No Connection
	IREF	Current Adjustment Terminal		NC1-3	Corrector of NPN Transistor
	IRIS/SH	Iris/Shutter Control		NCLR	Power On Reset
	IRQ	Interrupt Request		NCP1	Clamp Pulse
1	ITI	Insert & Track Information	ĺ	NCP2+VDH	Clamp Pulse + Horizontal Drive Pulse
	'''	mont a mack montation		NCP2+VDM	
J	JPEG	Joint Photographoc Image Cording Experts Group	ł	NDE	Clamp Pulse + Gate Pulse
١	01 20	Joint Photographice image Cording Experts Group		NE	Non Liner De-Emphasis
k	KANDO	Digital Gain Up	1	NLE	Emitor of NPN Transistor
`	KB	Carrier Balance			Non Liner Emphasis
	KEY IN	Key Scan		NR	Noise Reduction
	KND	Digital Gain Up		NRD	Non Rec Data
	KNEE			NRD BLK NRD CLK	Non Rec Data Blanking
	KINEE	Luminance Compensate			No Rec Data Clock
	LCD	Liquid Crystal Display		NRE	Read Enable Input (Low Active)
-	LCD P (L)	LCD Power On (L)		NWE	Write Enable (Low Active)
	LD LD	Load Pulse	0	ОВ	Optical Plant
	LDD	Liquid Direct Drive	١		Optical Black
l	LEDONT	LED Control		OBCNT	Optical Black Control
l	LI-BATT			OBREF	Reference Voltage for Optical Black Control
l	LOAD	Lithium Battery Loading		OE	Output Enable
				OFH	Horizontal Counted Down Clock Signal (Reference)
l	LOAD F, R LPF	Loading Direction (F:Forward/R:Reverse) Low Pass Filter		OFS	Offset
				OP	Operation AMP Output
	LRMONO	Monoral Audio (L + R)		OSD	ON Screen Display
	LSB	Least Significant Bit		OVL	Overlap Pulse
	LVL	LPF Switch for Auto Focus		OZ	Optical Zoom
N.A	MAO 5	Microproposes Address Date 0.7	_	DD1 0	DND Days 4.0
М	MA0-5	Microprocessor Address Data 0-5	Р	PB1-3	PNP Base 1-3
	M1-3	Motor Coil Terminal 1 to 3		P SW	Power Switch
	Mbps	Megahertz Bit Per Second		PBCTL	Play Back Control
	MD	Modulation		PBCTL	Pre-Branking Control
	MD0-7	Microprocessor Data 0-7		PBH	Head Amp Switch
	MDT0-7	Microprocessor Data 0-7		PBLK	Pre-Blanking (Pulse)
	ME (TAPE)	Metal Evaporated (Tape)		PC1-3	Corrector of PNP Transistor
	MENB	Focus Motor Enable		PCBM	Carrier Balance
	MFF	Manual Focus Far		PCH	Phase Compensator (Hall AMP)
	MFN	Manual Focus Near		PCI	Phase Compensator (Current)
	MHSYNC	Monitor Horizontal Sync Signal		PCO	Phase Compensator Out
Ш	MIC	Memory In Cassette		PCS	Switching Power Control

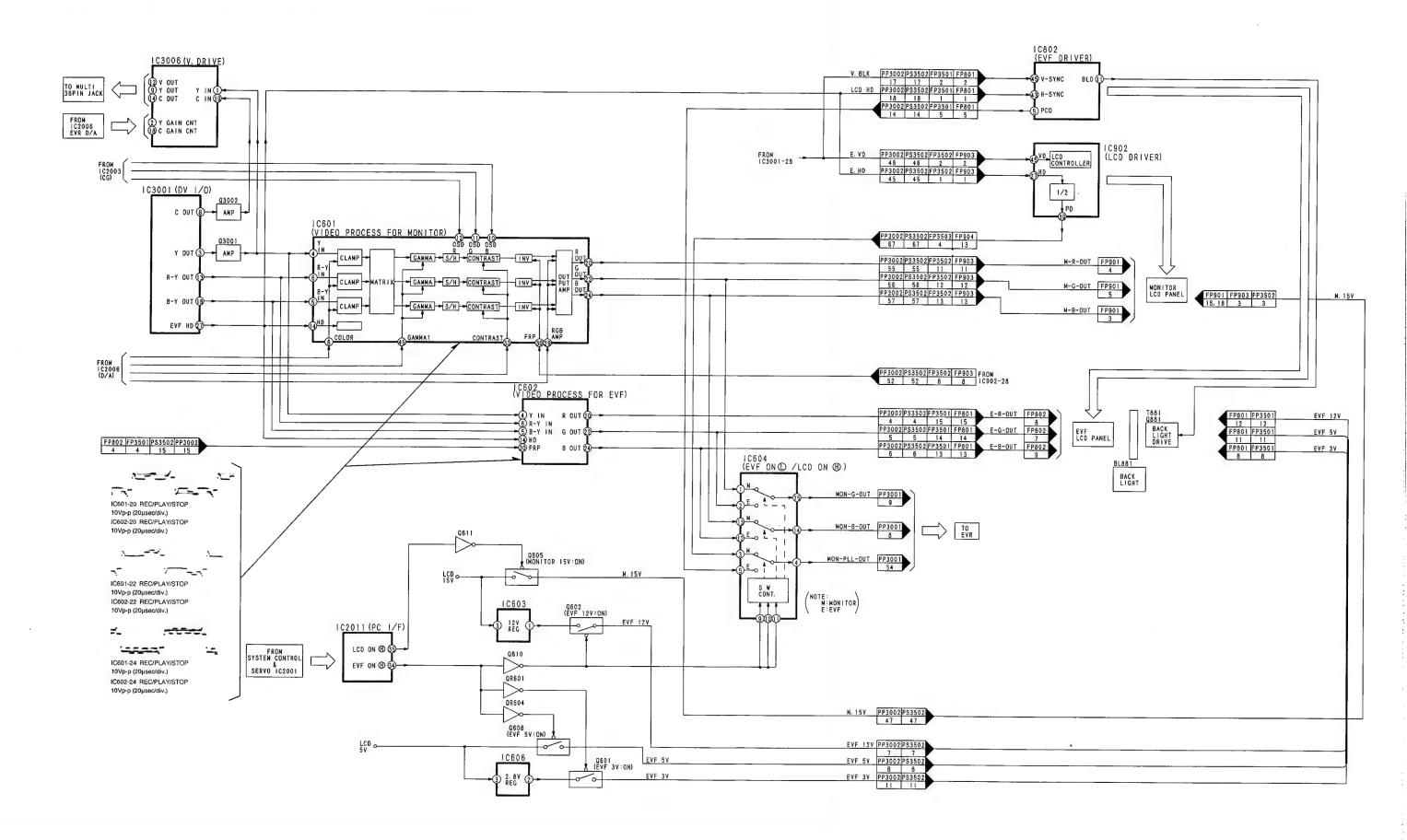
	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
	PCV	Phase Compensator (Voltage)		RVCO	Resister for Oscillation
	PE	Emitter of PNP Transistor		RW	Read Write
	PED	Pedestal		RWAE	Read Write Enable
	PEDECNT	Pedestal Control		R-YKB	R-Y Carrier Balance
	PENO	Alarm (L)			
	PFP	Pilot Frame Position	S	S PHOT	Supply Photo Transistor
	PGA, B	Power Ground A, B		S/H	Sampling Hold
	PGC	Pulse Generator Comparator		S/S	Start/Stop
	PGI	Pulse Generator Input		SBD	Serial Data
	PGMM	Pulse Generator Monostable Multivibrator		SBI	Serial Data Input
	PGO	Output of Pulse Generator AMP		SBO	Serial Data Output
	PMODE	Select Signal for Normal/Wide Screen		SBT	Serial Clock
	PON	Power On	ı	SCAN0-5	Key Scan 0-5
	POR	Power On Reset	l	SCK	Serial Clock
	POSCOM	Common Position	ı	SCR	Search
	PREAMP	Pre-AMP	ı	SCR, S.C.R	Still Cue Review
	PREBLK	Pre-Blanking	1	SEG.	Segment
	PT	Protect for V Voltage		SET	White Balance Set
	PWM	Pulse Width Modulation		SH/IRIS	Shutter/Iris Control
	PWMB	Pulse Width Modulation Pulse		SHIFT	Capasitor for Phase Shift
				SI	Serial Data Input
Q	Q2H	Source Output Select		SIOC	Serial In/Out Control
				SNAP	Snap Shot
R	R CTL P	Recorded Control Pulse (+)		SNS LED	Sensor LED
	R CTL R	Recorded Control Pulse (-)		so	Serial Data Output
	R/B	Read/Busy		SPA	ATF Sampling Pulse
	R/L	Direction Control for Data Transmition		SPEN	8 Bit Shift Register Enable
	RA	Recording AMP		SPK	Speaker
	RA1	Rec AMP 1		SPO	Reset for Switching Power
	RAC AC	Rec Audio Current		SPST	8 Bit Shift Register Strobe
	RAD	Read Address Data		SREELP	Supply Reel Pulse
	RAE	Read Address Enable		SRT	Start
	RB	Read Busy		SSA	Start Sync block Area
	R-B	R Bias		SSW	Select Signal for Low Pass Filter
	RCB	R Carrier Balance		ST5V	Safety Tab 5V
	RE	Read Enable		STAB	Safety Tab Switch
	RE (F) , (S)	Rotary Erase Head Transformer		STB	Stand by Signal
	REB	R Bias		STB	Strobe
	REC CC	Rec Current Control		SWB	Switching Pre-Drive Pulse
	REC CCNT	Rec Current Control		SYL EC	Cylinder Torque Control
	RECCTRL	Recording Control Pulse		SYL FG	Cylinder FG
	RECI	Rec Amp Switch	_	_	7.1.(7)
	RENCF	Lens Control (Forward)	Т	T	Tele (Zoom)
	RENCR	Lens Control (Reverse)		T PHOT	Take-up Photo Transistor
	RERASE	Rotary Erase Head		TBC	Time Base Conntrol
	RGBIV1-2	1V Inverted Signal 1-2	١.	TFT	Thim Film Transistor
	RGO R/G OFF	Offset Voltage For AWT R		TH	Thermostat for Battery
	RSF	Capstan Direction (Reverse/Stop/Forward)		TI	Test Mode Select
	RST	Reset		TL	Torque Limit
	RSTB	R Strobe		TM	Sub Code
	RSTPWD	Reset Power Down Input		TMD	Sub Code Data
	RSTR	Reset Read		TRE	Tracking Error Signal
	RSTW	Reset Write		TREEL (P)	Take-up Reel (Pulse)
	RT	Saw Tooth Terminal	<u></u>	TRFIX	Tracking Fix

	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
	TRIWAVE	Tracking Wave		VSSX	X Driver Power for Colour LCD
	TRP	Tracking Position	1	VSSXY	X-Y Driver Power for Colour LCD
	TRP	Trap			
	TSR	Head Switching Refference	W	w	Wide (Zoom)
	TST	Time Scale Transfer		W/N	Mode Select for Window Mode
				W/N	Wide/Normal
U	U/V SEL	R-Y/B-Y Select Signal	1	WAD	Write Address Enable
	UNLOAD	Un-Loading		WAE	Write Address Enable
11	UNRE	Microprocessor Read Enable		WAERAE	Write Address Enable
	UNWE	Microprocessor Write Enable		WARI	Interrupt
	UV	R-Y/B-Y		WB	White Balance
	UV SEL	R-Y/B-Y Select Signal		WE	Write Enable
$ \cdot $				WEM	Memory Write Enable
\vee	V1-V4	V.CCD Drive Pulse	1	WHD	Wide Horizontal Drive Pulse
	VB	VH Filter Switching		WIDE A	Wide Zoom
	VCE	Power Terminal		WSB	B AGC Control
	VCNTL	Video Control		WSR	R AGC Control
	VCO	Voltage Control Oscillator		WTV	Wide TV
	VCP	Shift Clock Output for Vertical Drive			
	VCTLD	Video Control	x	XP	FG Logic Reset
	VCTRL	Voltage Charge Control	<u> </u>		, a region neces
	VD	Vertical Drive Pulse	Y	Y FM0-7	Y Field Memory 0-7
1 1	VDDX	X Drive Power for Colour LCD		YCE	Cylinder Error Code
П	VDDXY	XY Drive Power for Colour LCD		YGC	Y Gain Control
	VDDY	Y Drive Power for Colour LCD		YMO 0-7	Y Field Memory 0-7
	VDREC	Video Delayed Rec		YNCST	Noize Canceller
	Vgg	Voltage for Gate IC		YNR	Luminance Noise Reduction
	Vgl	Gate off Voltage		YSDP 0-7	Digital Y Out 0-7
	VID	Video Signal Out		1001 07	Signal 1 Out 0 7
	VIN	Video In	z	Z.ENC	Zoom Encoder
	VITC	Vertical Interval Time Code	-	Z.MIC	Zoom Mic
	VITERBI	One of Signal Detection Method		ZENC	Zoom Encoder Output
	VL	Low Voltage		ZMDIR	Zoom Drive
	VLC	Variable Length Cording		ZMEN	Zoom Enable
	VLOCKP	Artificial Sync Pulse		ZMT	Zoom Motor Tele Side
	VLP	Artificial Sync Pulse		ZMT (+)/(-)	Zoom Motor (+)/(-)
	VM	Motor Voltage		ZMTER	Zoom Motor Tele Side
	VMD	Velocity Mode Data		ZMW	Zoom Motor Vide Side
	VMD1-3	Electric Shutter Mode		ZSW	Zoom Switch
	VMODE	NTSC/PAL Select Switch			
	VMVH	VH Filter Switching			
	VORP	Video Overlap			
	VRB	Voltage Refference Bottom			
	VRBS	Voltage Refference Bottom Output			
	VREF1R3V	Refference Voltage 1.3V			
	VREF3R3V	Refference Voltage 3.3V			
	VREFH	Refference Voltage High Side	ll	•	
	VREFL	Refference Voltage Low Side			
	VRI	Refference Voltage Input			
	VRO	Refference Voltage Output			
	VRT	Voltage Refference Top			
	VRTS	Voltage Refference Top Output			
	VS	Switching Comparator			
1 1	VSS	Vertical Sync Signal			
$oxed{oxed}$	VOO	vertical sync signal			

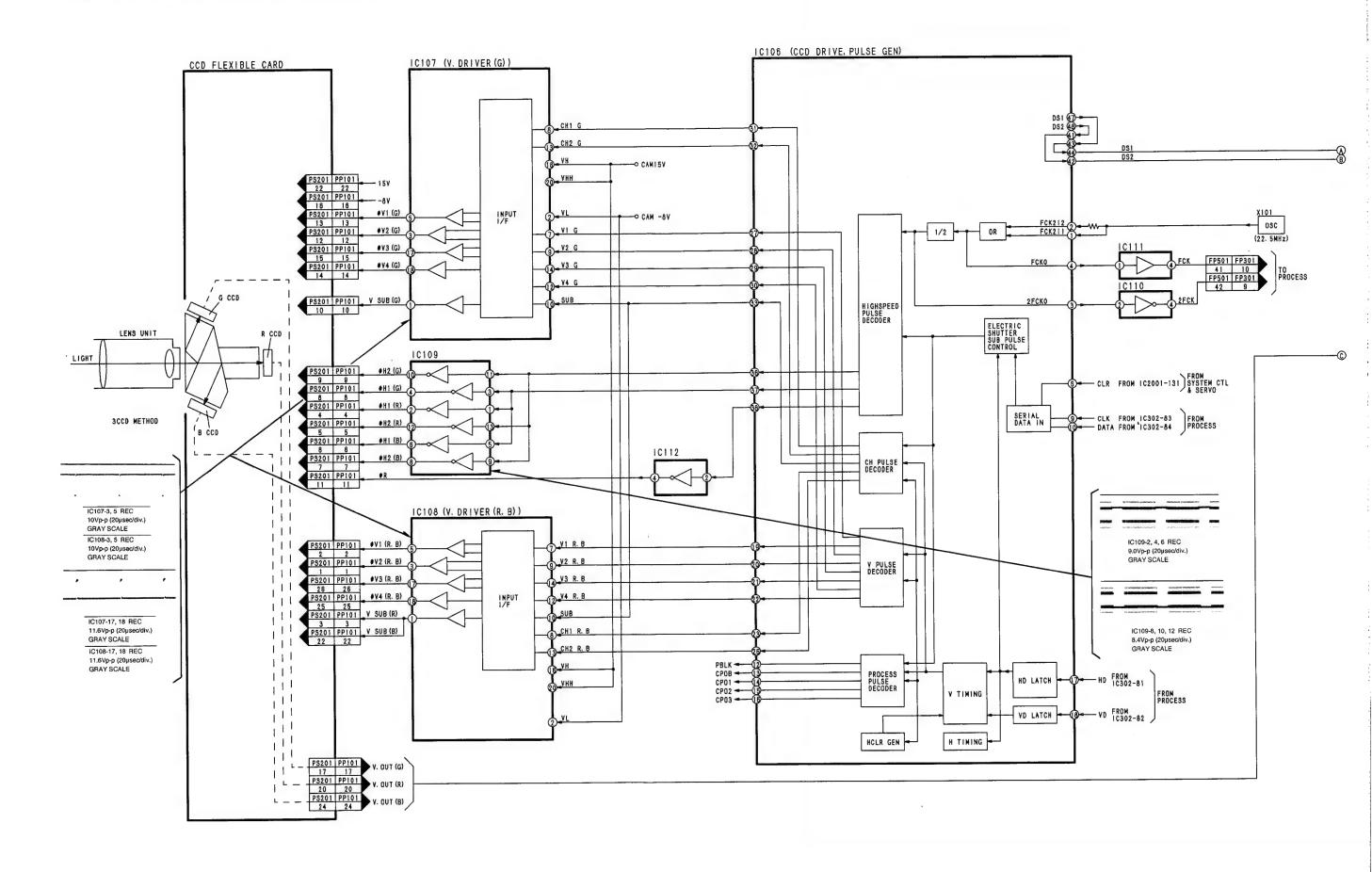
3-2. OVERALL BLOCK DIAGRAM



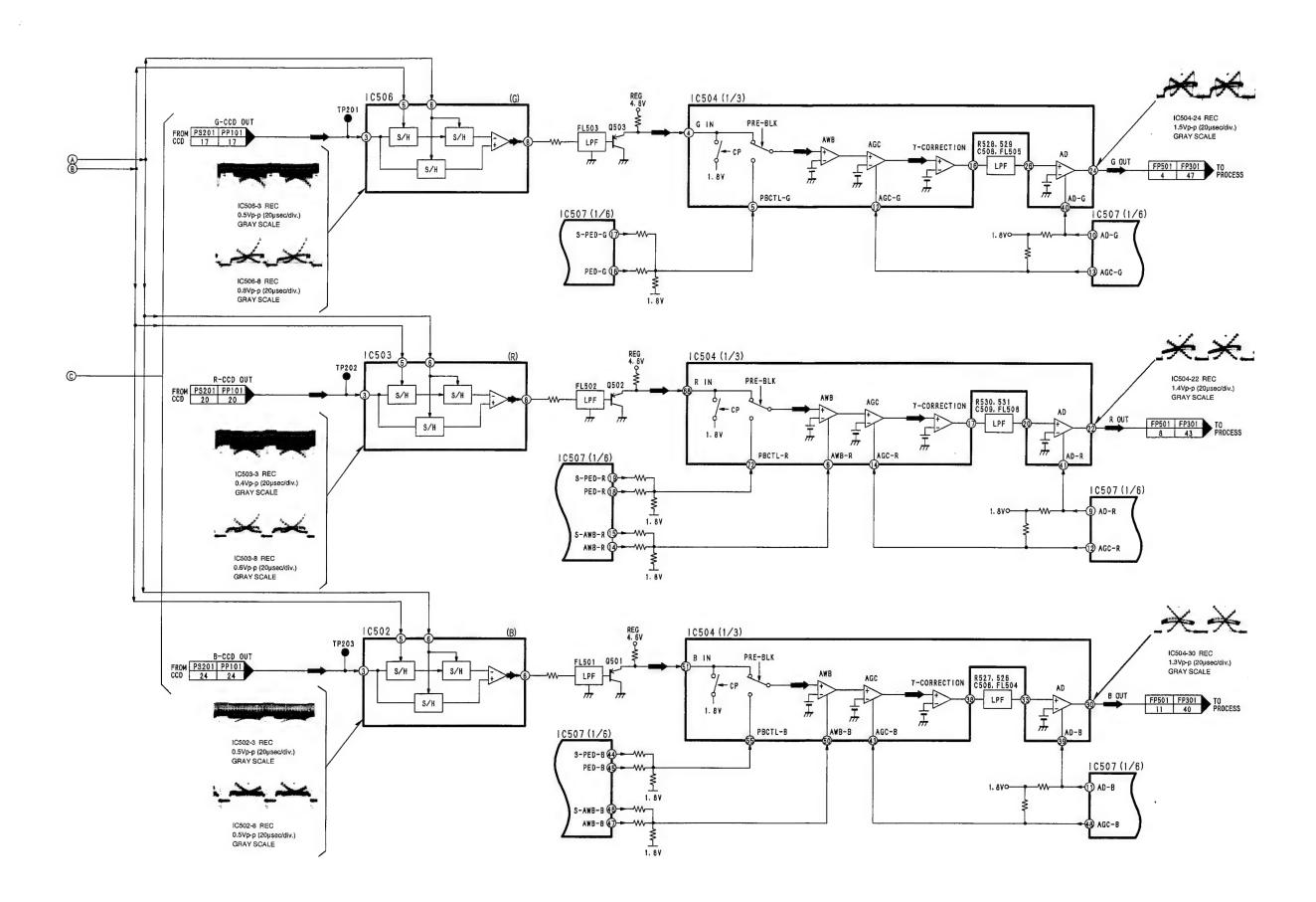
3-3. EVF & LCD MONITOR BLOCK DIAGRAM



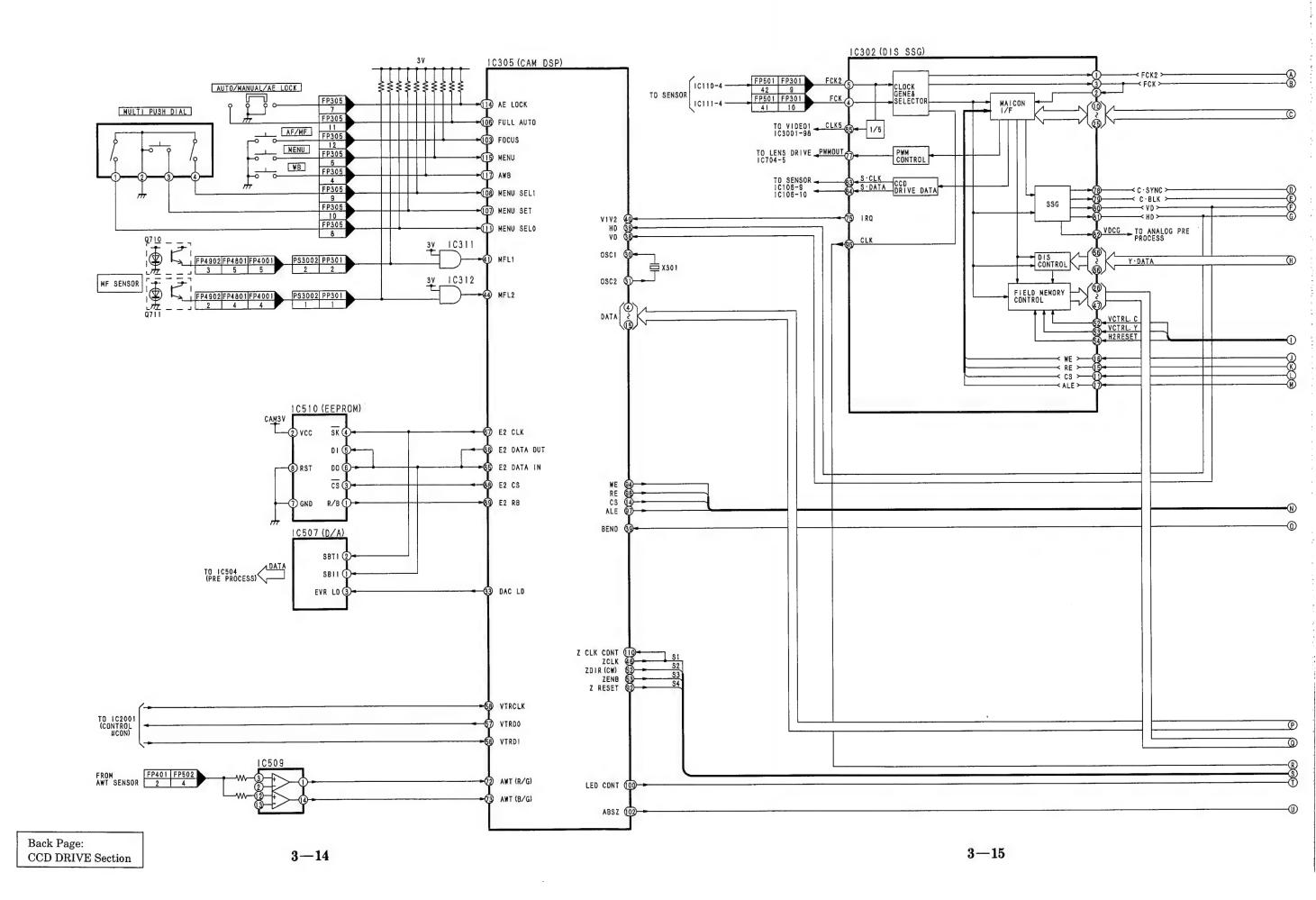
3-4. CCD DRIVE BLOCK DIAGRAM

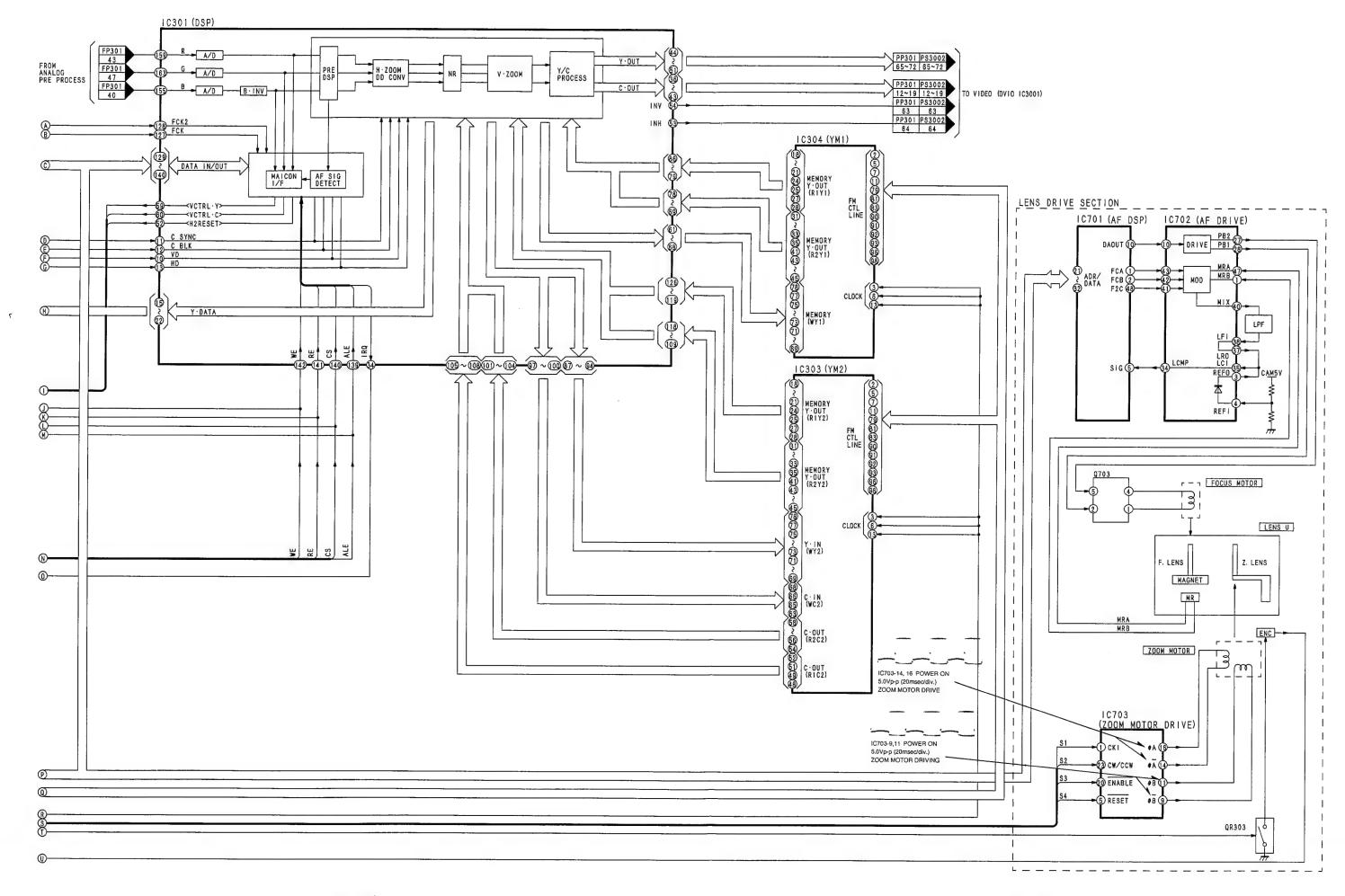


Back Page: EVF & LCD Section

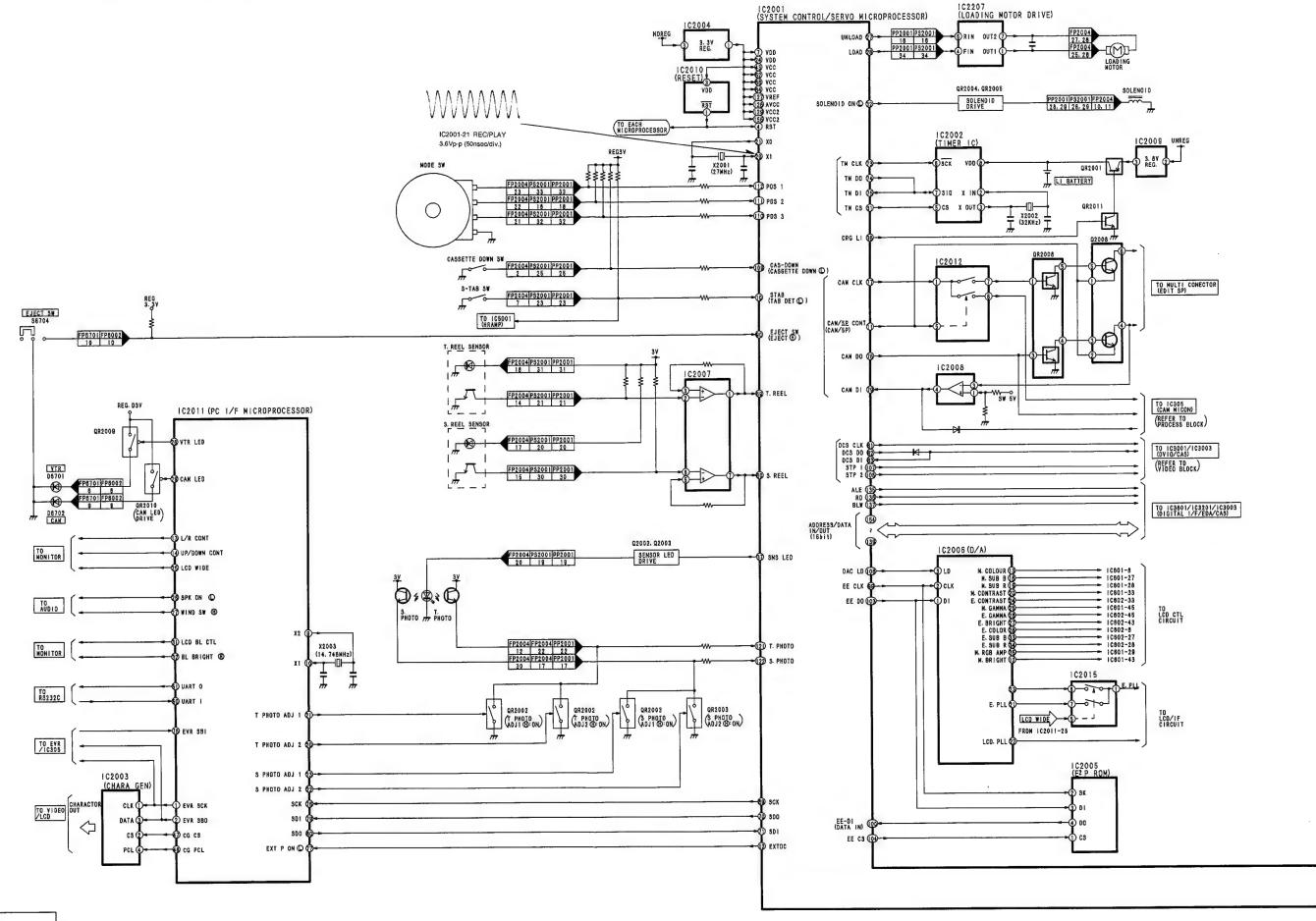


3-5. PROCESS BLOCK DIAGRAM

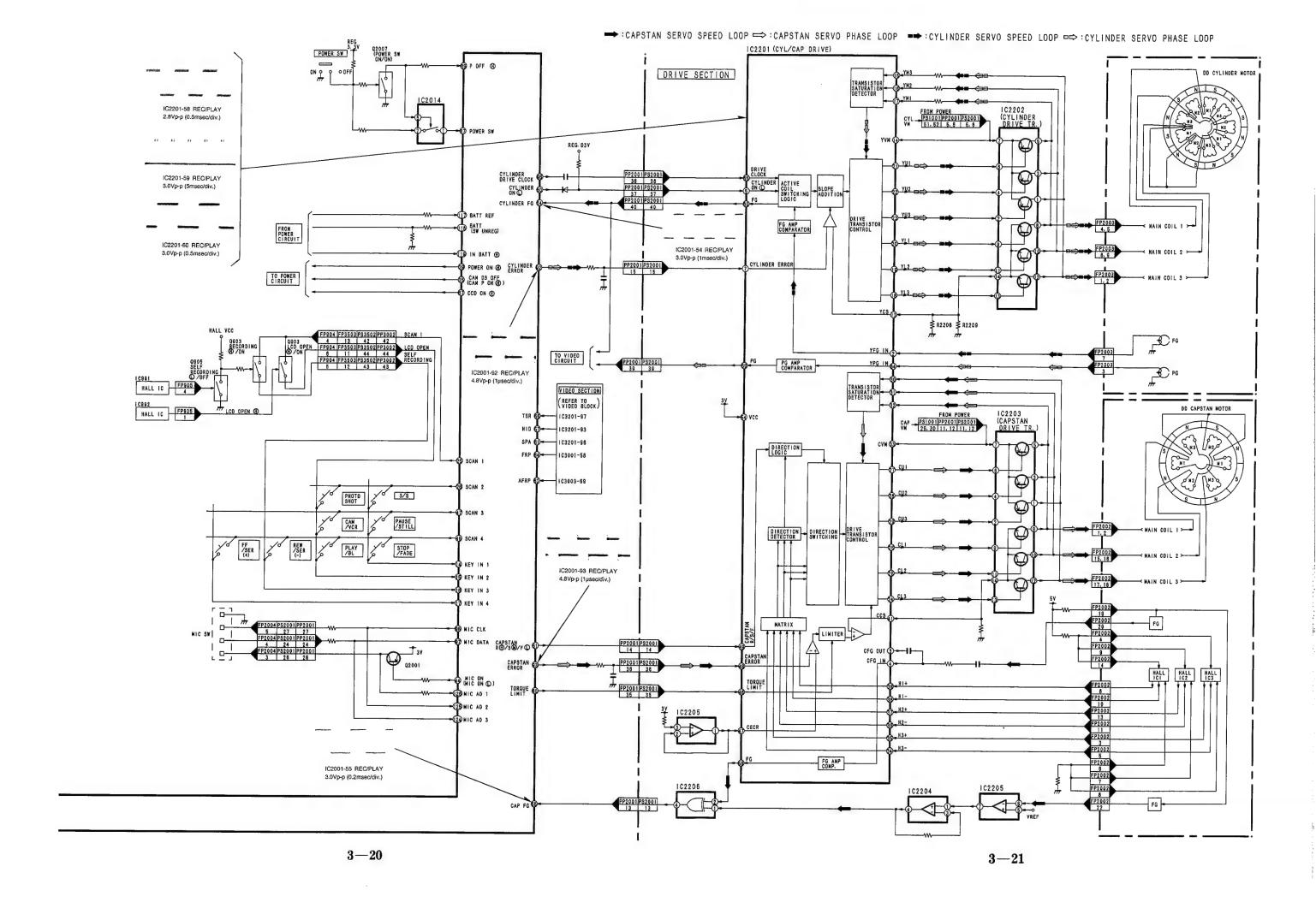




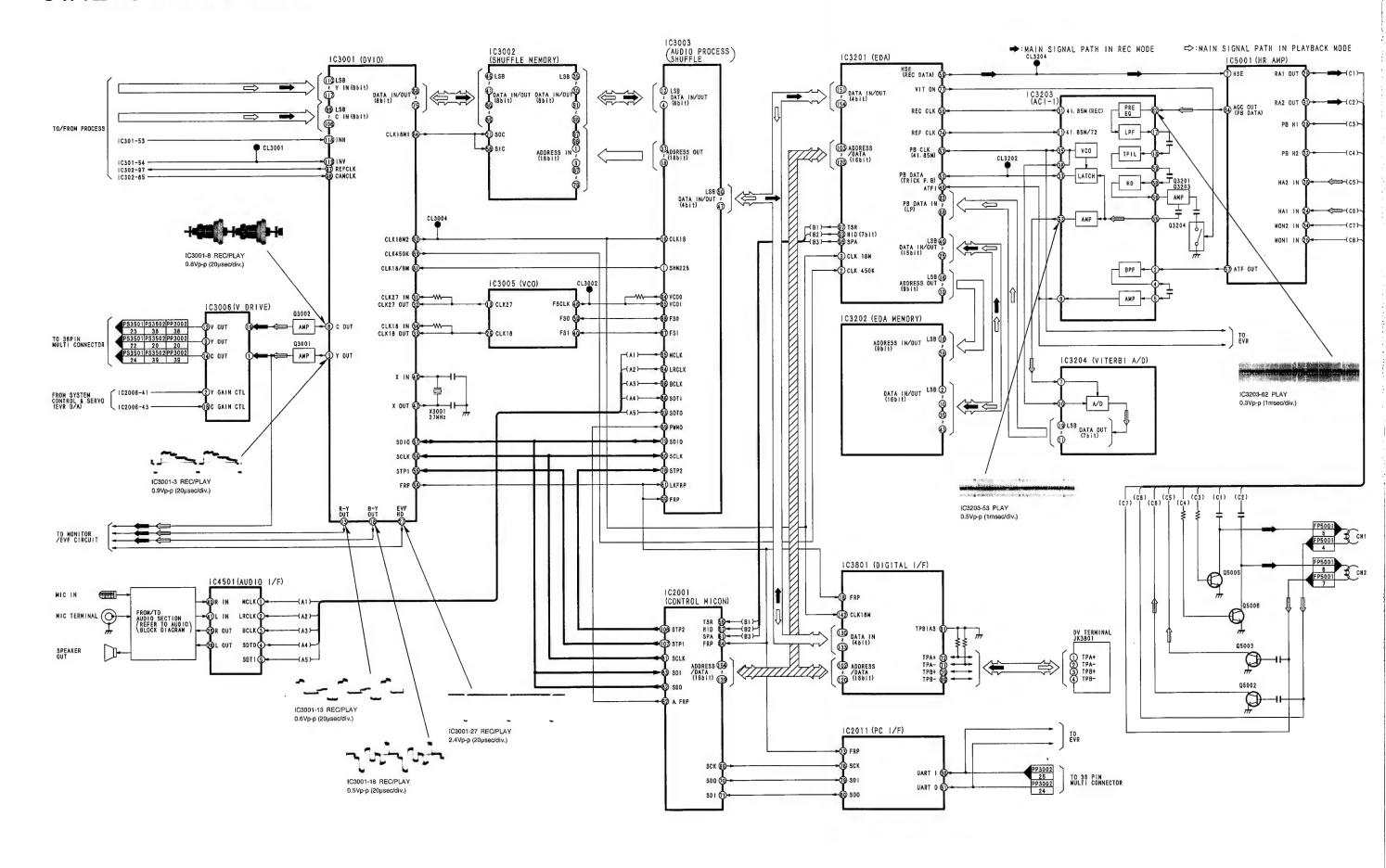
3-6. SYSTEM CONTROL & SERVO BLOCK DIAGRAM



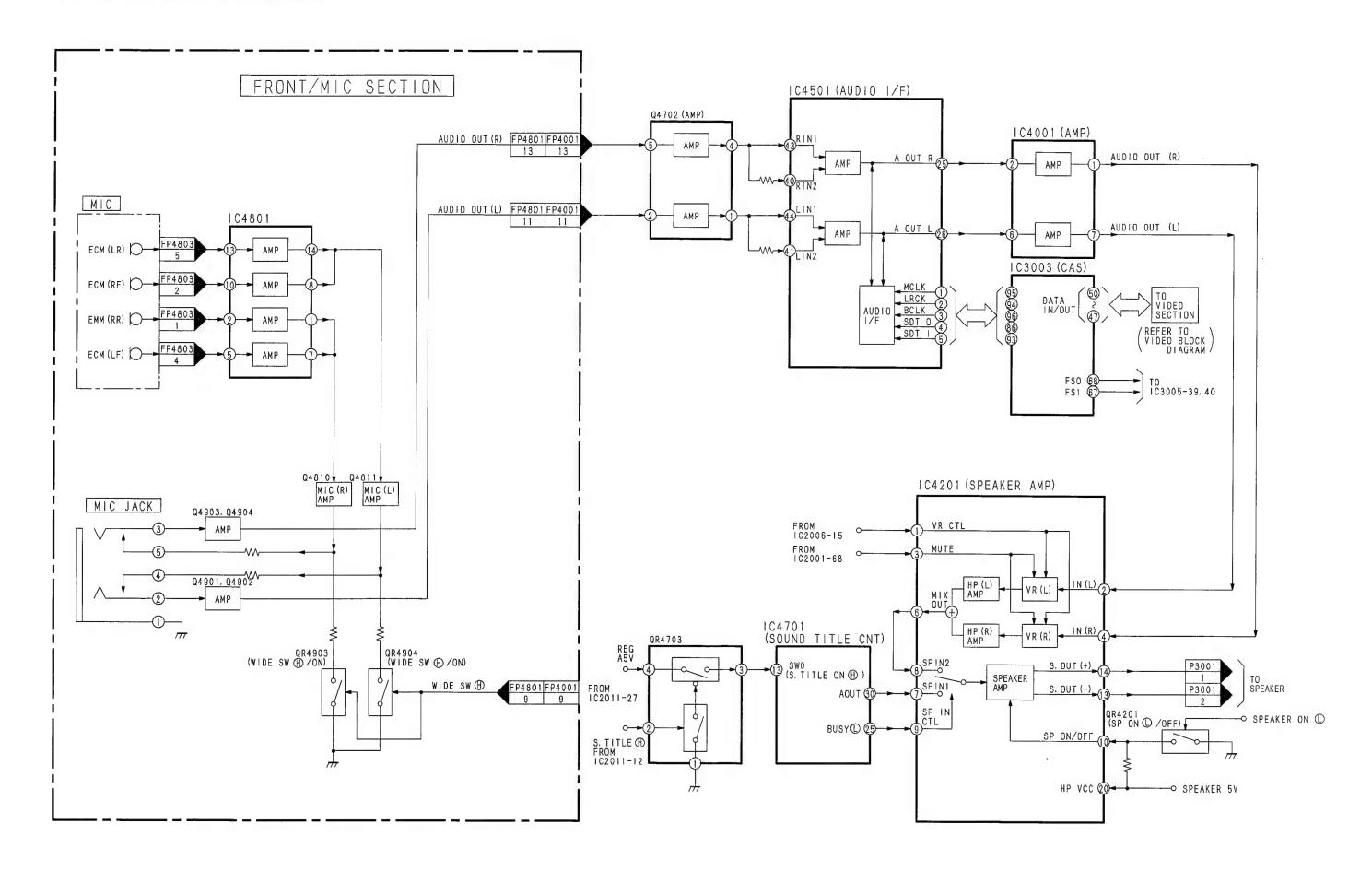
Back Page: PROCESS Section



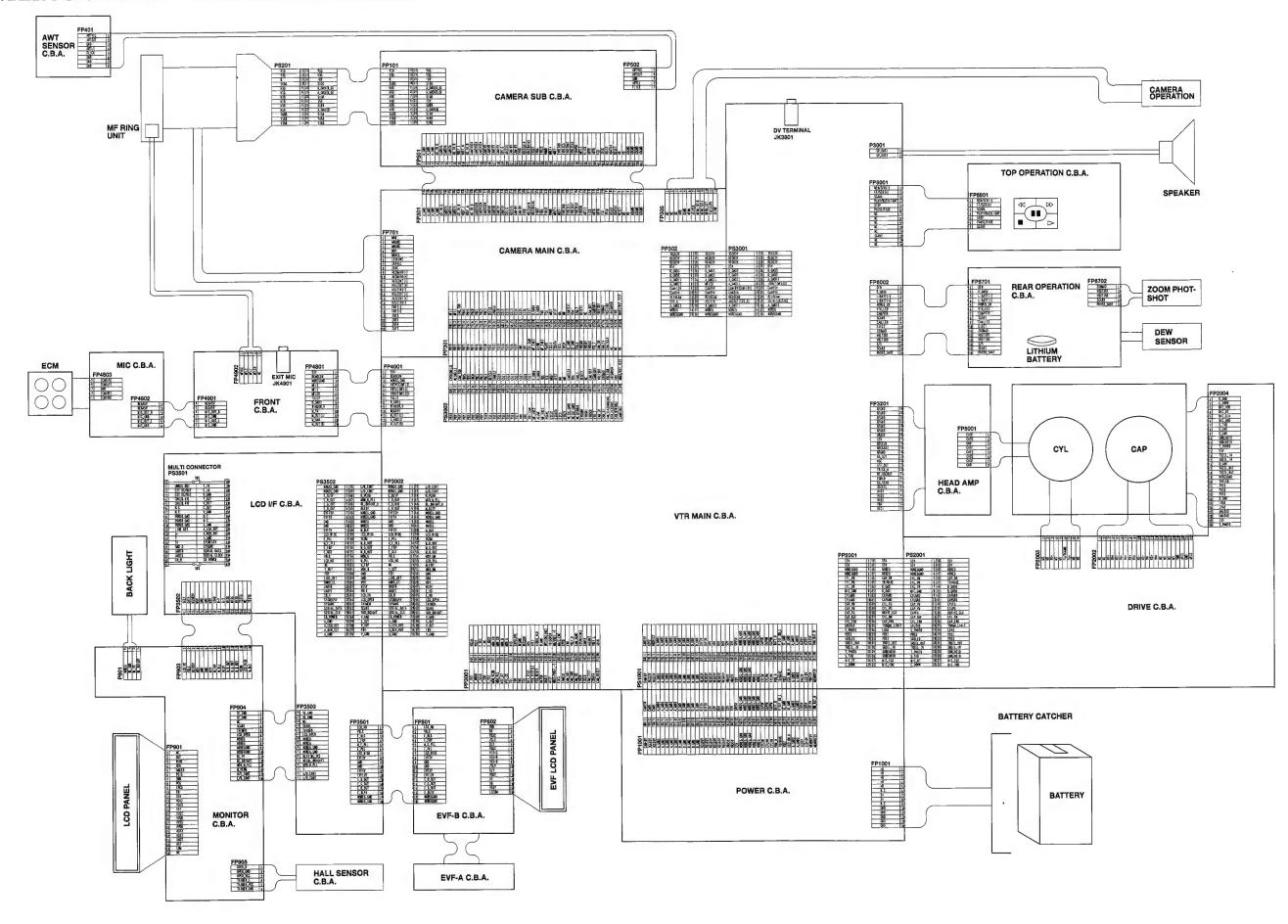
3-7. VIDEO BLOCK DIAGRAM



Back Page: SYSTEM CTL & SERVO Section

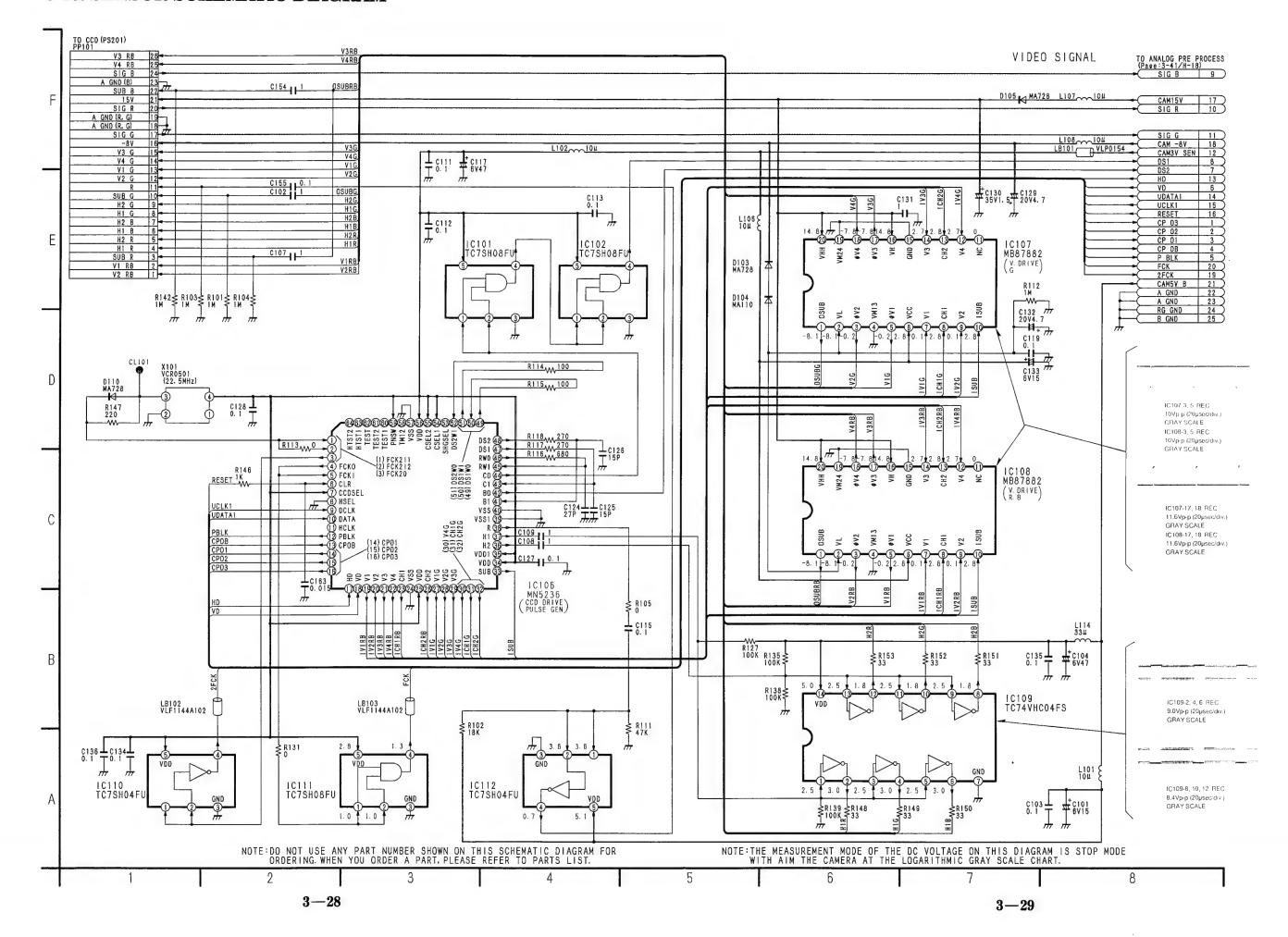


3-9. INTERCONNECTION SCHEMATIC DIAGRAM

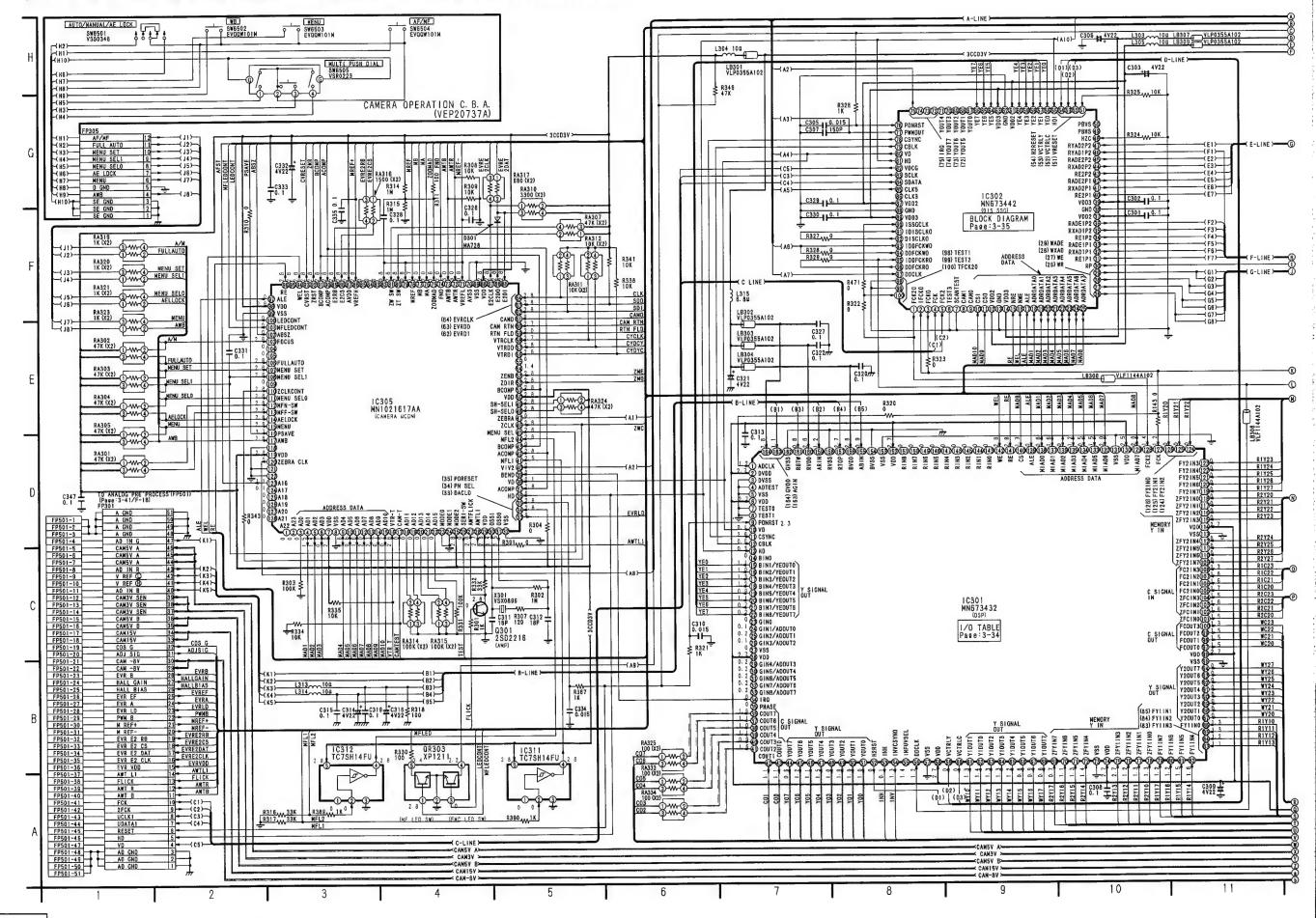


Back Page: AUDIO Section

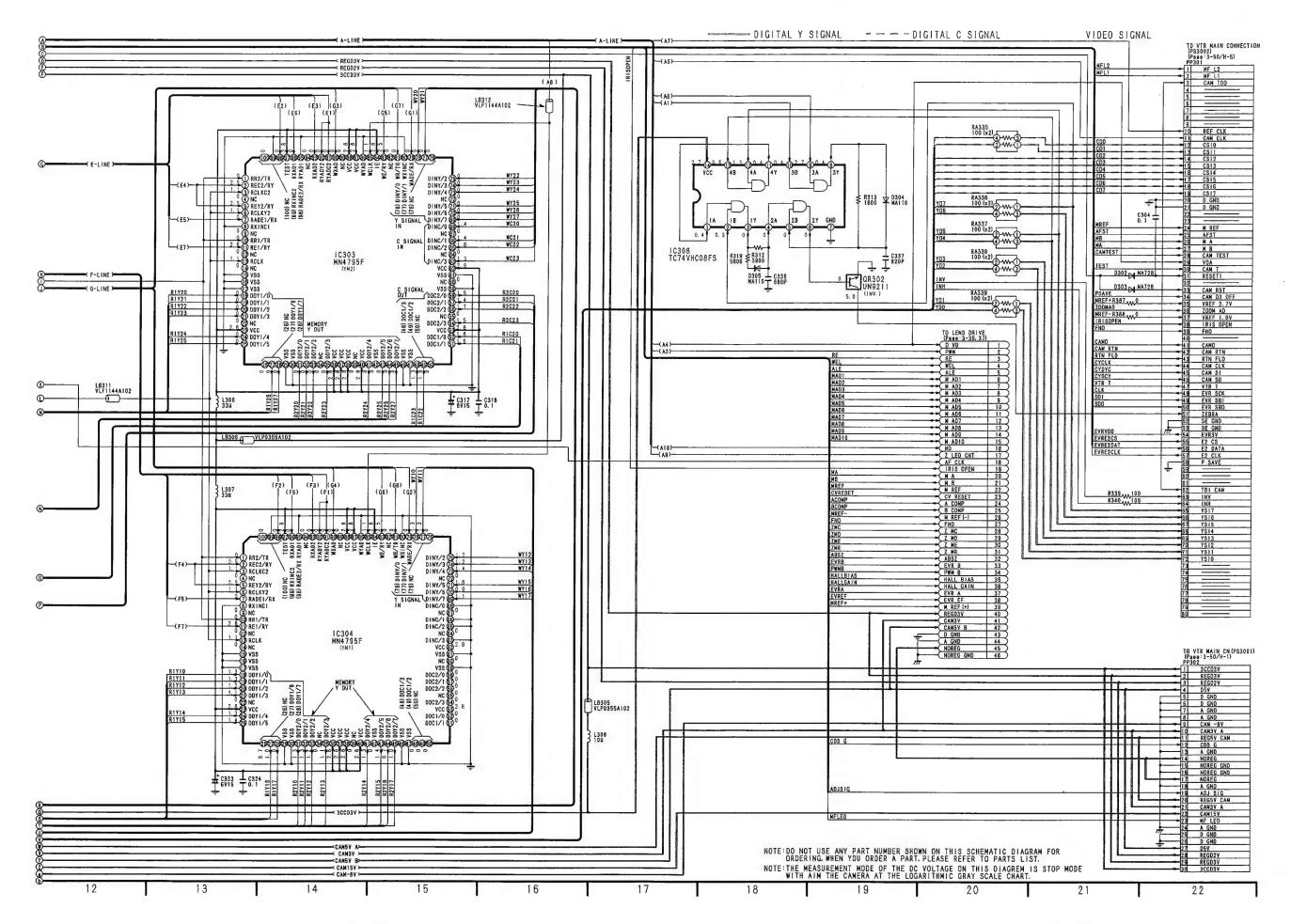
3-10. SENSOR SCHEMATIC DIAGRAM



3-11. PROCESS & CAMERA OPERATION SCHEMATIC DIAGRAM



Back Page: SENSOR Section



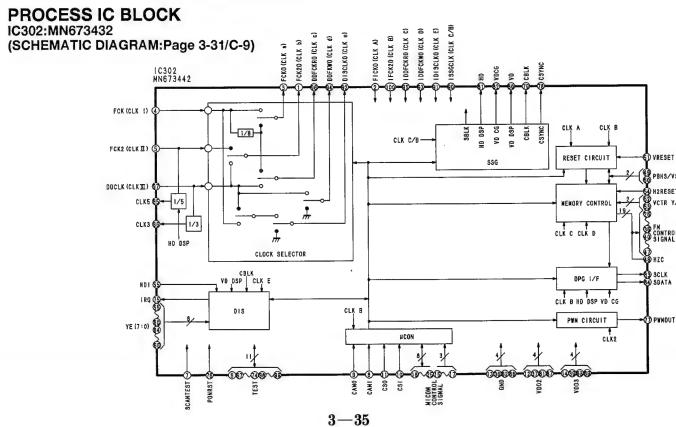
PROCESS I/O TABLE

IC301 (MN673432): DSP

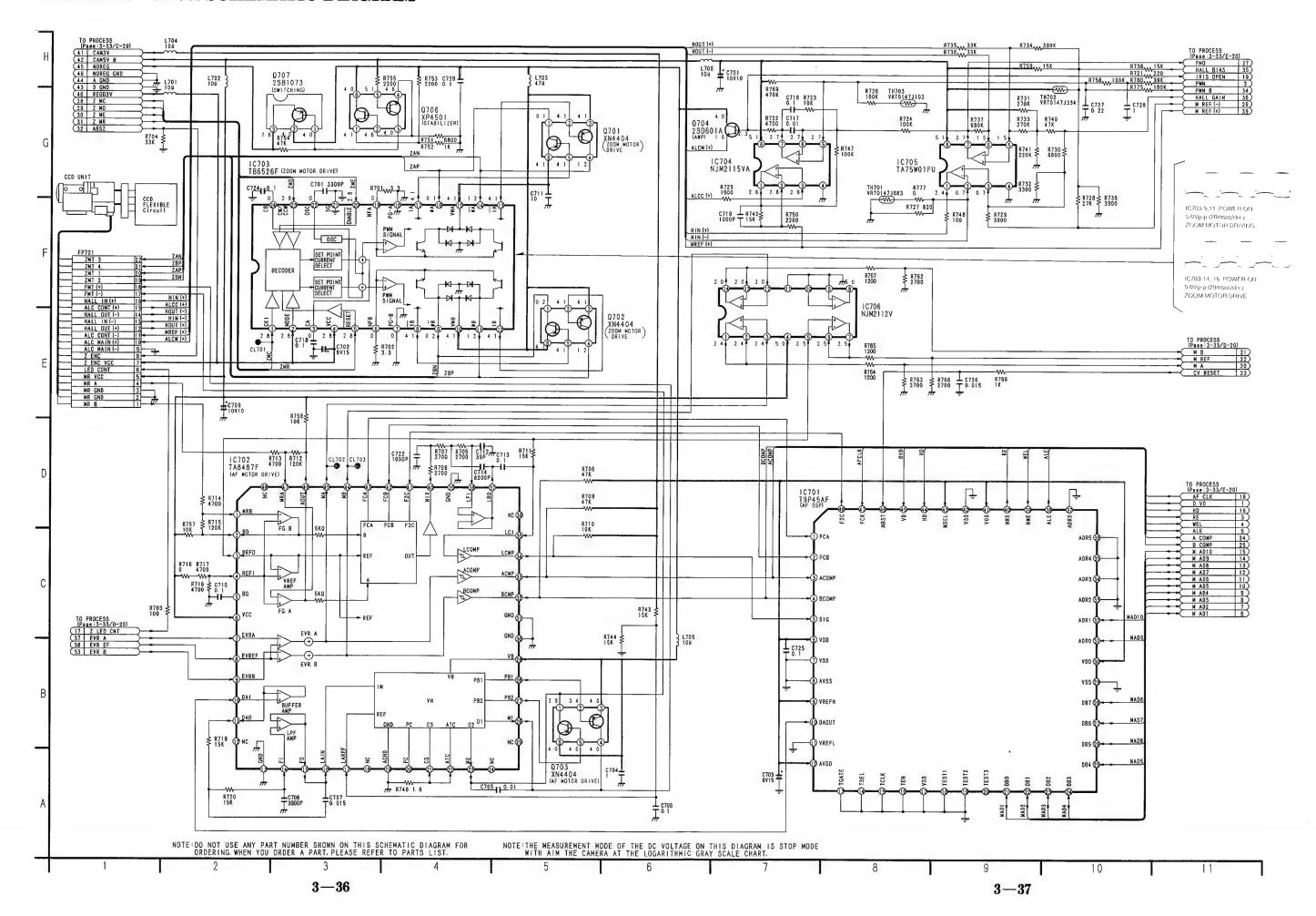
PIN. NO.	SIGNAL NAME	I/O	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	ADCLK	1	Internal A/D Clock	44	YOUT7	0	Y Signal (bit7)
2	DVDD	_	Internal A/D Digital Voltage	45	YOUT6	0	Y Signal (bit6)
3	DVSS	_	Internal A/D Digital GND	46	YOUT5	0	Y Signal (bit5)
4	ADTEST	1	Internal A/D Test Signal	47	YOUT4	0	Y Signal (bit4)
5	VSS		GND	48	YOUT3	0	Y Signal (bit3)
6	VDD	_	Voltage	49	YOUT2	0	Y Signal (bit2)
7	TEST0	ı	Test Mode Signal (bit0)	50	YOUT1	0	Y Signal (bit1)
8	TEST1	-	Test Mode Signal (bit1)	51	YOUT0	0	Y Signal (bit0)
9	PONRST	1	Reset: Power On	52	H2RST	0	H2 Reset Signal
10	VD	Ī	VD Signal	53	INH	0	INH Signal
11	CSYNC	1	CSYNC Signal	54	INVCSYNO	0	INV/CSYNC Signal
12	CBLK	$\overline{}$	CBLK Signal	55	INFUVSEL	0	INF/UVSEL Signal
13	HD	1	HD Signal	56	DDCLK	ı	Clock (13.5MHz)
14	BIN0	Т	Bch Digital Signal (bit0)	57	VSS	_	GND
			Bch Digital Signal (bit1) Input and Ye	58	VDD	_	Voltage
15	BIN1/YEOUT0	I/O	Signal (bit0) Output		MOTELLY		Field Memory Control Signal for Y
			Bch Digital Signal (bit2) Input and Ye	59	VCTRLY		Signal
16	BIN2/YEOUT1	1/0	Signal (bit1) Output			<u> </u>	Field Memory Control Signal for C
			Bch Digital Signal (bit3) Input and Ye	60	VCTRLC	i	Signal
17	BIN3/YEOUT2	I/O	Signal (bit2) Output	61	Y1QUT0	0	NR Section Y1 Signal (bit0)
			Bch Digital Signal (bit4) Input and Ye	62	Y1OUT1	0	NR Section Y1 Signal (bit1)
18	BIN4/YEOUT3	I/O	Signal (bit3) Output	63	Y1OUT2	0	NR Section Y1 Signal (bit2)
			Bch Digital Signal (bit5) Input and Ye	64	Y1QUT3	ō	NR Section Y1 Signal (bit3)
19	BIN5/YEOUT4	I/O	Signal (bit4) Output	65	Y1OUT4	0	NR Section Y1 Signal (bit4)
			Bch Digital Signal (bit6) Input and Ye	66	Y1OUT5	0	NR Section Y1 Signal (bit5)
20	BIN6/YEOUT5	1/0	Signal (bit5) Output	67	Y1OUT6	0	NR Section Y1 Signal (bit6)
			Bch Digital Signal (bit7) Input and Ye	68	Y10UT7	0	NR Section Y1 Signal (bit7)
21	BIN7/YEOUT6	I/O	Signal (bit6) Output	69	ZFY1IN7	1	Y1 Signal (bit7) for V Zoom
			Bch Digital Signal (bit8) Input and Ye	70	ZFY1IN6	i i	Y1 Signal (bit6) for V Zoom
22	BIN8/YEOUT7	1/0	Signal (bit7) Output	71	ZFY1IN5	i i	Y1 Signal (bit5) for V Zoom
23	GIN0		Gch Digital Signal (bit0)	72	ZFY1IN4	H	Y1 Signal (bit4) for V Zoom
20	GIIVO	'	Gch Digital Signal (bit1) Input and	73	VSS	<u> </u>	GND
24	GIN1/ADOUT0	1/0	Internal A/D Signal (bit0) Output	74	VDD		Voltage
			Gch Digital Signal (bit2) Input and	75	ZFY1IN3	-	Y1 Signal (bit3) for V Zoom
25	GIN2/ADOUT1	1/0	Internal A/D Signal (bit1) Output	76	ZFY1IN2	H	Y1 Signal (bit2) for V Zoom
			Gch Digital Signal (bit3) Input and	77	ZFY1IN1	1	Y1 Signal (bit1) for V Zoom
26	GIN3/ADOUT2	1/0	Internal A/D Signal (bit2) Output	78	ZFY1IN0	+	Y1 Signal (bit0) for V Zoom
	V/00			79	+	 	Y1 Signal (bit7) for NR
27	VSS		GND	-	FY1IN7	 	Y1 Signal (bit6) for NR
28	VDD	\vdash	Voltage	80	FY1IN6	. !	
29	GIN4/ADOUT3	1/0	Gch Digital Signal (bit4) Input and	81	FY1IN5	 	Y1 Signal (bit5) for NR
		ļ	Internal A/D Signal (bit3) Output	82	FY1IN4	1	Y1 Signal (bit4) for NR
30	GIN5/ADOUT4	1/0	Gch Digital Signal (bit5) Input and	83	FY1IN3		Y1 Signal (bit3) for NR
		_	Internal A/D Signal (bit4) Output	84	FY1IN2		Y1 Signal (bit2) for NR
31	GIN6/ADOUT5	1/0	Gch Digital Signal (bit6) Input and	85	FY1IN1		Y1 Signal (bit1) for NR
			Internal A/D Signal (bit5) Output	86	FY1IN0	1	Y1 Signal (bit0) for NR
32	GIN7/ADOUT6	1/0	Gch Digital Signal (bit7) Input and	87	Y2OUT0	0	NR Section Y2 Signal (bit0)
			Internal A/D Signal (bit6) Output	88	Y2OUT1	0	NR Section Y2 Signal (bit1)
33	GIN8/ADOUT7	1/0	Gch Digital Signal (bit8) Input and	89	Y2OUT2	0	NR Section Y2 Signal (bit2)
			Internal A/D Signal (bit7) Output	90	Y2OUT3	0	NR Section Y2 Signal (bit3)
34	IRQ	0	BM Data Read Out Offering Signal	91	Y2OUT4	0	NR Section Y2 Signal (bit4)
35	PHASE	0	PHASE Signal	92	Y2OUT5	0	NR Section Y2 Signal (bit5)
36	COUT7	0	C Signal (bit7)	93	Y2OUT6	0	NR Section Y2 Signal (bit6)
37	COUT6	0	C Signal (bit6)	94	Y2OUT7	0	NR Section Y2 Signal (bit7)
38	COUT5	0	C Signal (bit5)	95	VSS	_	GND
39	COUT4	0	C Signal (bit4)	96	VDD	_	Voltage
40	COUT3	0	C Signal (bit3)	97	FCOUT0	0	NR Section C Signal (bit0)
41	COUT2	0	C Signal (bit2)	98	FCOUT1	0	NR Section C Signal (bit1)
42	COUT1	0	C Signal (bit1)	99	FCOUT2	0	NR Section C Signal (bit2)
43	COUTO	0	C Signal (bit0)	100	FCOUT3	0	NR Section C Signal (bit3)

Back Page: PROCESS
& CAMERA OPERATION Section

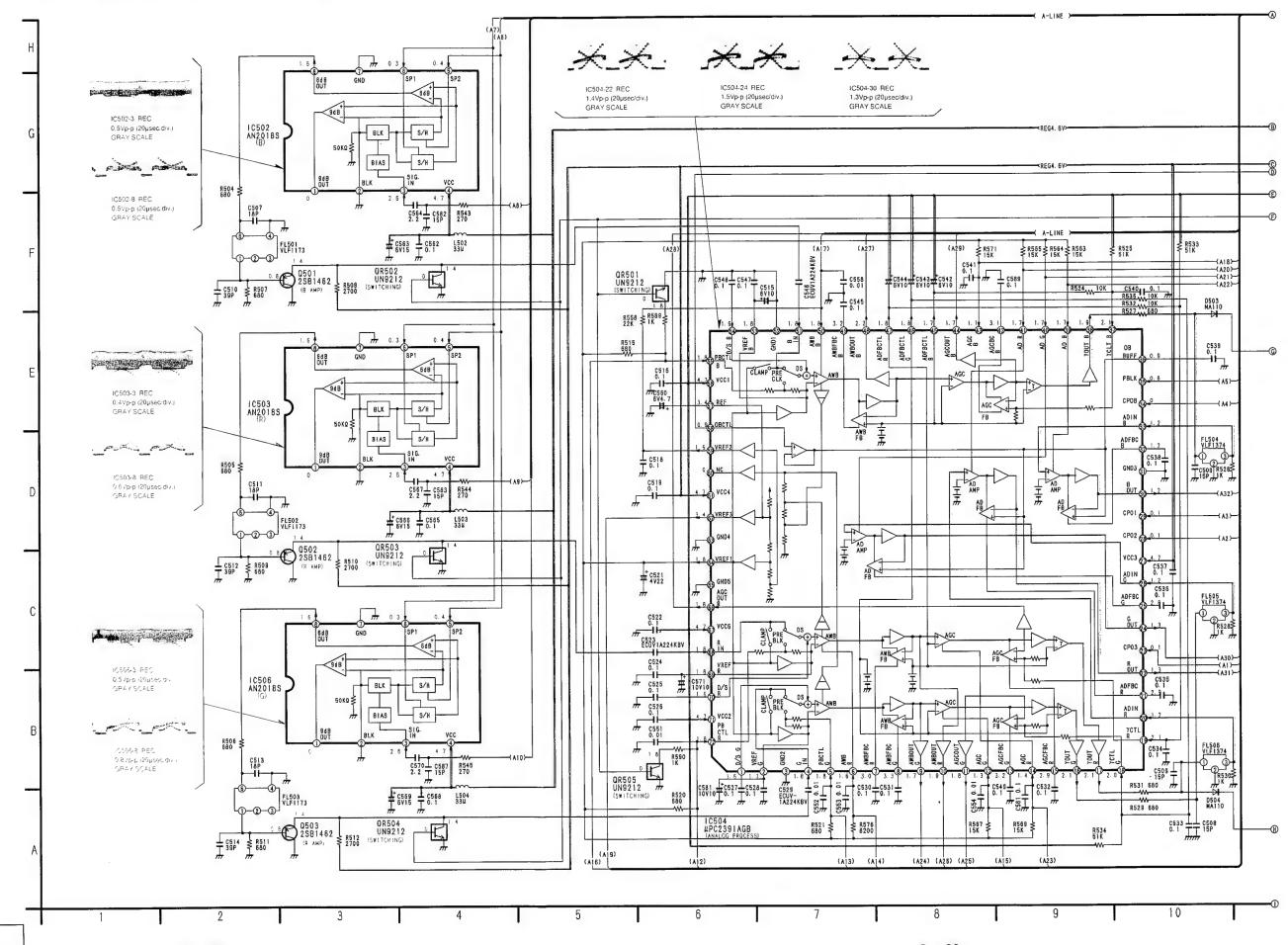
PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
101	ZFCIN0		C Signal (bit0) for Zoom	134	MIAD4	1/0	Microcomputer Data (bit4)
102	ZFCIN1	i	C Signal (bit1) for Zoom	135	MIAD3	1/0	Microcomputer Data (bit3)
103	ZFCIN2	1	C Signal (bit2) for Zoom	136	MIAD2	1/0	Microcomputer Data (bit2)
104	ZFCIN3		C Signal (bit3) for Zoom	137	MIAD1	1/0	Microcomputer Data (bit1)
105	FC2IN0	1	C Signal (bit0) for NR	138	MIAD0	1/0	Microcomputer Data (bit0)
106	FC2IN1	1	C Signal (bit1) for NR	139	ALE	I	ALE Signal
107	FC2IN2	1	C Signal (bit2) for NR	140	CS	ı	CS Signal
108	FC2IN3	1	C Signal (bit3) for NR	141	RE	1	RE Signal
109	ZFY2IN7	1	Y2 Signal (bit7) for V Zoom	142	WE	T	WE Signal
110	ZFY2IN6	1	Y2 Signal (bit6) for V Zoom	143	RIN0	1	Rch Digital Signal (bit0)
111	ZFY2IN5	ı	Y2 Signal (bit5) for V Zoom	144	RIN1		Rch Digital Signal (bit1)
112	ZFY2IN4	1	Y2 Signal (bit4) for V Zoom	145	RIN2	1	Rch Digital Signal (bit2)
113	VSS		GND	146	RIN3	T	Rch Digital Signal (bit3)
114	VDD	_	Voltage	147	RIN4	Ι	Rch Digital Signal (bit4)
115	ZFY2IN3	I	Y2 Signal (bit3) for V Zoom	148	RIN5	1	Rch Digital Signal (bit5)
116	ZFY2IN2	1	Y2 Signal (bit2) for V Zoom	149	RIN6		Rch Digital Signal (bit6)
117	ZFY2IN1	1	Y2 Signal (bit1) for V Zoom	150	RIN7	1	Rch Digital Signal (bit7)
118	ZFY2IN0	1	Y2 Signal (bit0) for V Zoom	151	RIN8	1	Rch Digital Signal (bit8)
119	FY2IN7		Y2 Signal (bit7) for NR	152	VDD	_	Voltage
120	FY2IN6	1	Y2 Signal (bit6) for NR	153	VSS	_	GND
121	FY2IN5	1	Y2 Signal (bit5) for NR	154	BVSS		A/D Analogue GND for Internal Bch
122	FY2IN4	1	Y2 Signal (bit4) for NR	155	ABIN	1	Bch Analogue Signal
123	FY2IN3	1	Y2 Signal (bit3) for NR	156	BVDD		A/D Analogue Voltage for Internal Bch
124	FY2IN2	1	Y2 Signal (bit2) for NR	157	RTOP	- 1	Internal A/D Reference Voltage (Top)
125	FY2IN1	ı	Y2 Signal (bit1) for NR	158	RVSS		A/D Analogue GND for Internal Rch
126	FY2IN0	1	Y2 Signal (bit0) for NR	159	ARIN		Rch Analogue Signal
127	FCK	1	fck Rate Clock (22.5MHz)	160	RVDD	_	A/D Analogue Voltage for Internal Rch
128	FCK2	-	2fck Rate Clock (22.5MHz)	161	RBTM		Internal A/D Reference Voltage
129	MIAD7	1/0	Microcomputer Data (bit7)				(Bottom)
130	VDD	_	Voltage	162	GVSS	_	A/D Analogue GND for Internal Gch
131	VSS		GND	163	AGIN	1	Gch Analogue Signal
132	MIAD6	1/0	Microcomputer Data (bit6)	164	GVDD	-	A/D Analogue Voltage for Internal Gch
133	MIAD5	1/0	Microcomputer Data (bit5)				



3-12. LENS DRIVE SCHEMATIC DIAGRAM

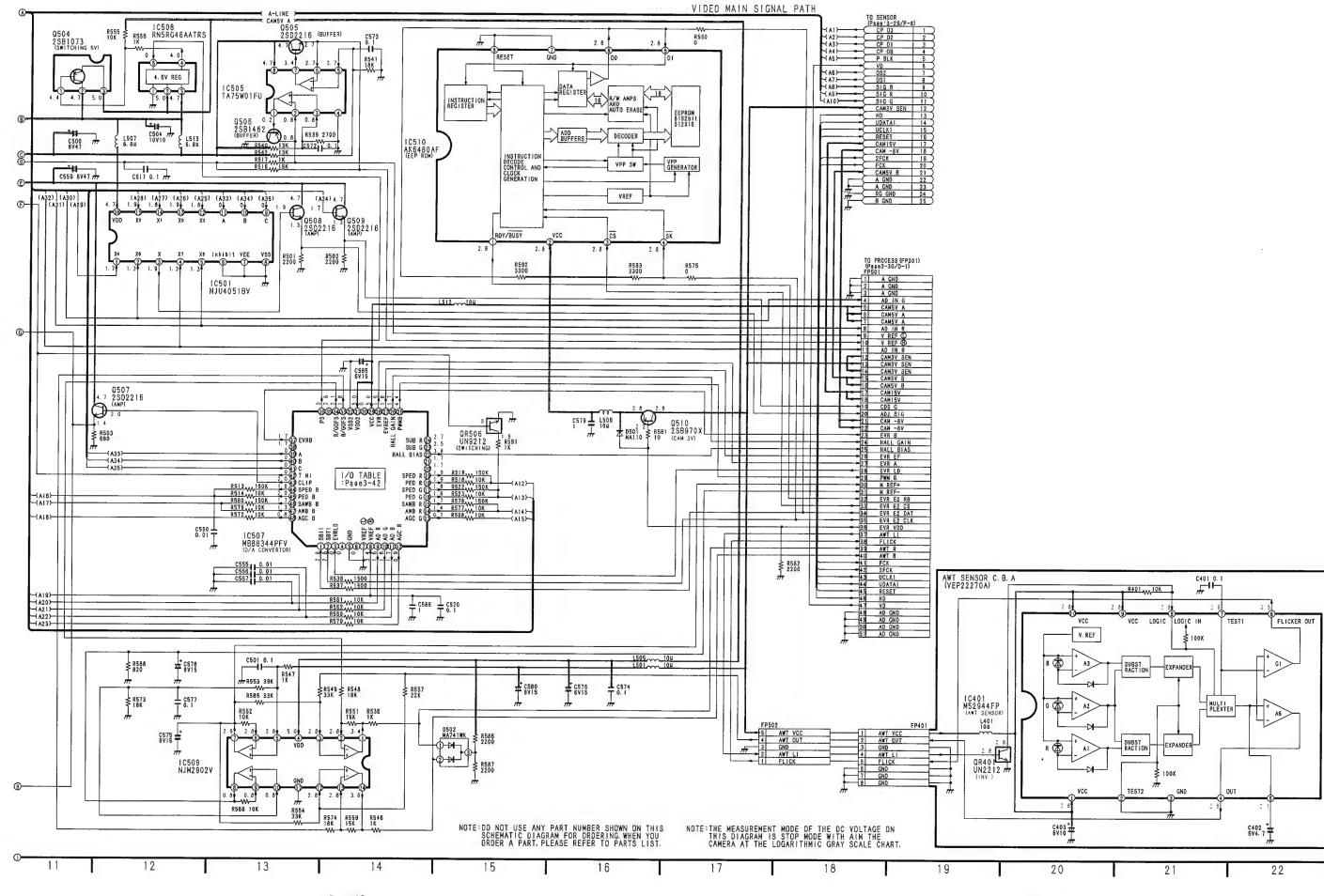


3-13. ANALOG PRE PROCESS & AWT SENSOR SCHEMATIC DIAGRAM



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ANALOG PRE PROCESS I/O TABLE

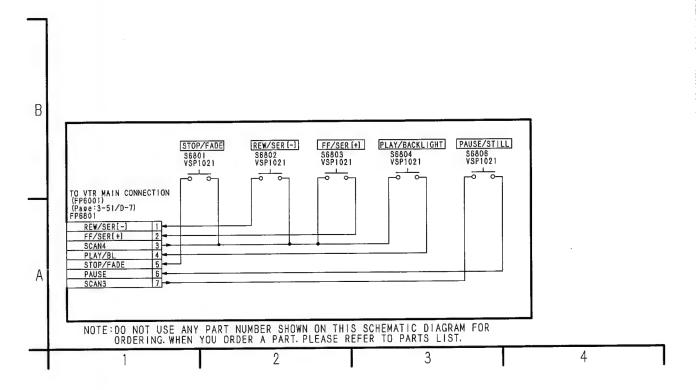
IC507 (MB88344PFV): D/A CONVERTER

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
			Serial Data	23	SUB G		(N.C.)
1	SBI1	1	(Data Length Input Serial Data of	24	SUB R	_	(N.C.)
·			14 bits)	25	PWMB		8 bits D/A Output Terminal with OP
			Shift Clock	26	HALL GAIN	0	AMP
			(With Build Up of Shift Clock, Input	27	EVREF		(Reference Voltage: VDD2 · VSS2)
2	SBT1		Signal from DI Terminal is Input into	28	EVR		(Reference voltage: VDD2 VSO2)
			14 bits Shift Resistor)	29	VCC		MCU Interface, Voltage Terminal of
			When High Level is Input intor LD	29	VCC	-	OP AMP
			Terminal, Value of Shift Resistor is	30	NC		(N.C.)
3	EVRLD	1	Loaded by Decoder and Resistor for	31	VDD2	_	D/A Converter Voltage
			D/A Output.	32	VSS2	_	D/A Converter GND
4	DO	_	(N.C.)	33	B/G OFS		8 bits D/A Output Terminal with OP
_	0115		MCU Interface, GND Terminal of OP			0	AMP
5	GND		AMP	34	R/G OFS		(Reference Voltage: VDD2 · VSS2)
6	NC	_	(N.C.)	35	NC	_	(N.C.)
7	VREF ①	_	D/A Converter GND	36	PS		8 bits D/A Output Terminal with OP
8	VREF (H)	_	D/A Converter Voltage		E) (D)	0	AMP
9	ADR			37	EVRB		(Reference Voltage: VDD2 · VSS2)
10	AD G	1		38	NC		(N.C.)
11	AD B]		39	A		
12	AGC R	1		40	В		
13	AGC G	1	8 bits D/A Output Terminal with OP	41	С		
14	AWB R	0	AMP	42	TH1		8 bits D/A Output Terminal with OP
15	SAWB R		(Reference Voltage: VDD1 · VSS1)	43	CLIP	0	AMP
16	PED G]		44	SPED B		(Reference Voltage: VDD1 · VSS1)
17	SPED G			45	PED B		(
18	PED R			46	SAWB B		
19	SPED R			47	AWB B	1	
20	NC	_	(N.C.)	48	AGC B		
21	NC	_	(N.C.)			<u> </u>	
			8 bits D/A Output Terminal with OP		1		
22	HALL BIAS	0	AMP				
			(Reference Voltage: VDD2 · VSS2)	\bot	<u> </u>		

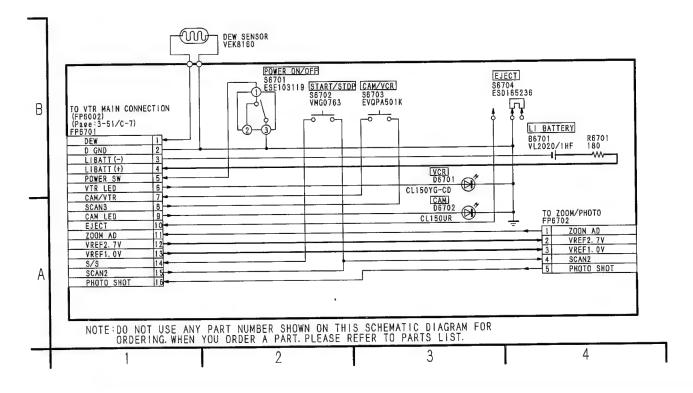
Back Page: ANALOG PRE PROCESS & AWT SENSOR Section

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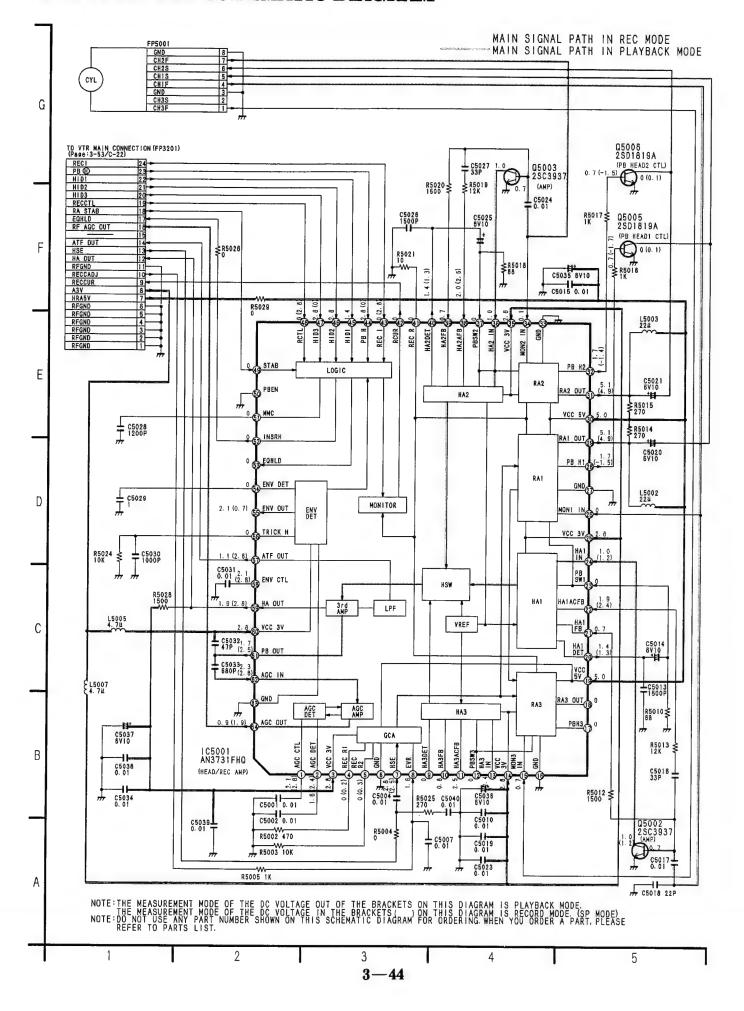
3-14. TOP OPERATION SCHEMATIC DIAGRAM



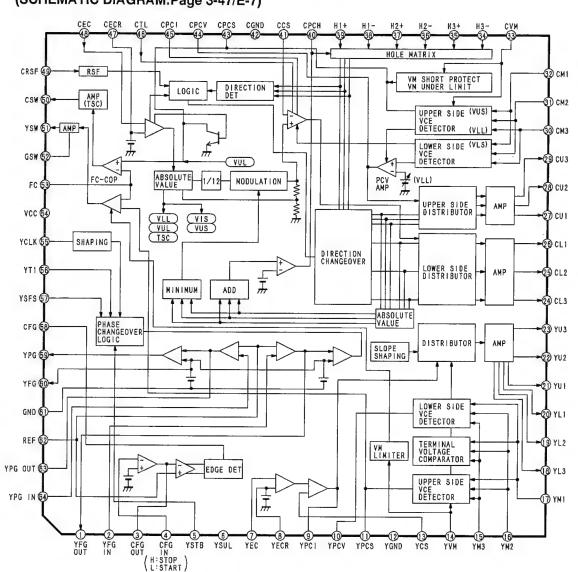
3-15. REAR OPERATION SCHEMATIC DIAGRAM



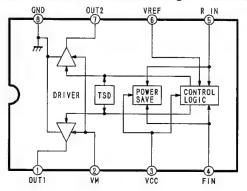
3-16. HEAD AMP SCHEMATIC DIAGRAM



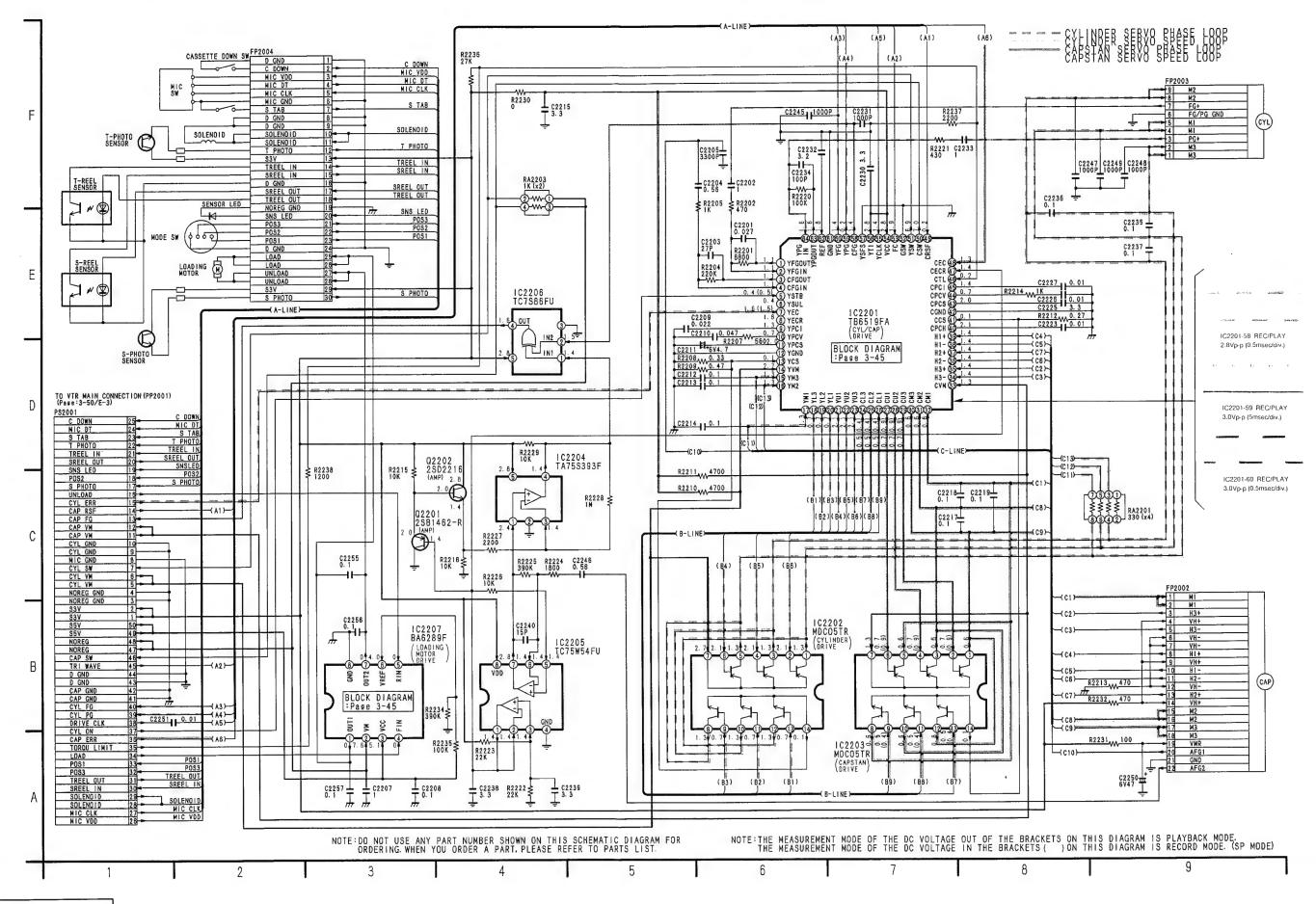
DRIVE IC BLOCK IC2201:TB6519FA (SCHEMATIC DIAGRAM:Page 3-47/E-7)



IC2207:BA6289F (SCHEMATIC DIAGRAM:Page 3-46/B-3)

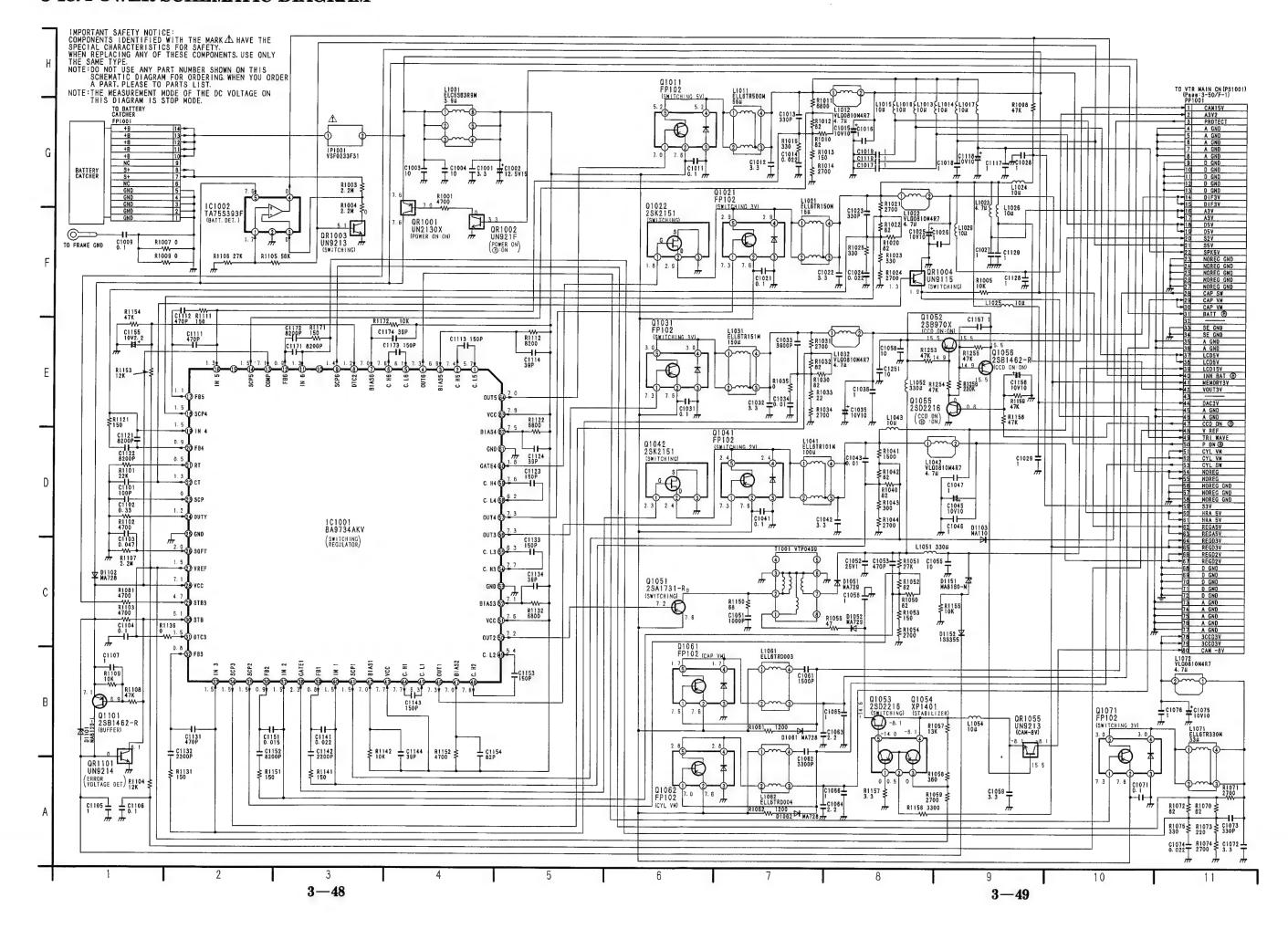


3-17. DRIVE SCHEMATIC DIAGRAM



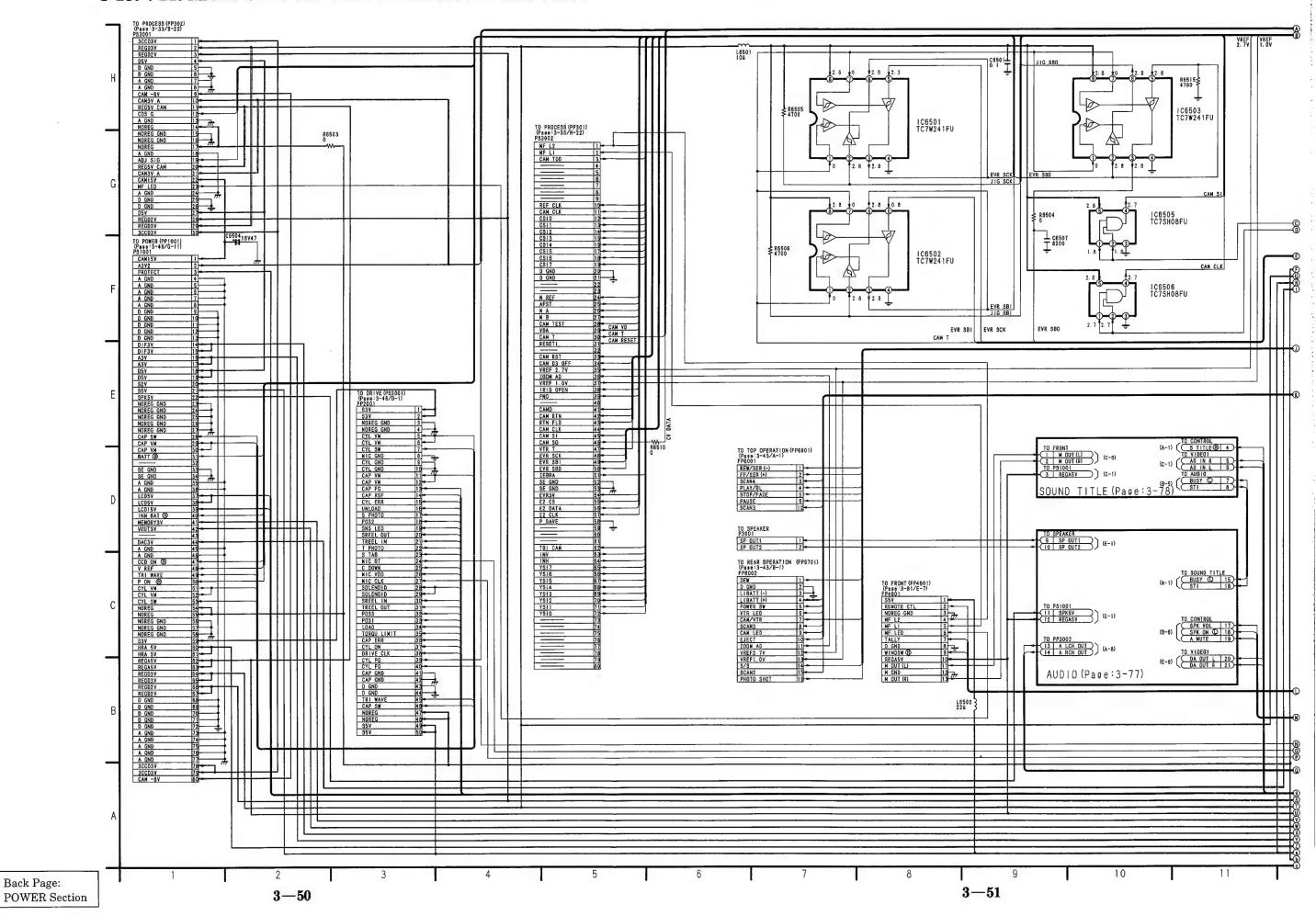
Back Page: HEAD AMP Section

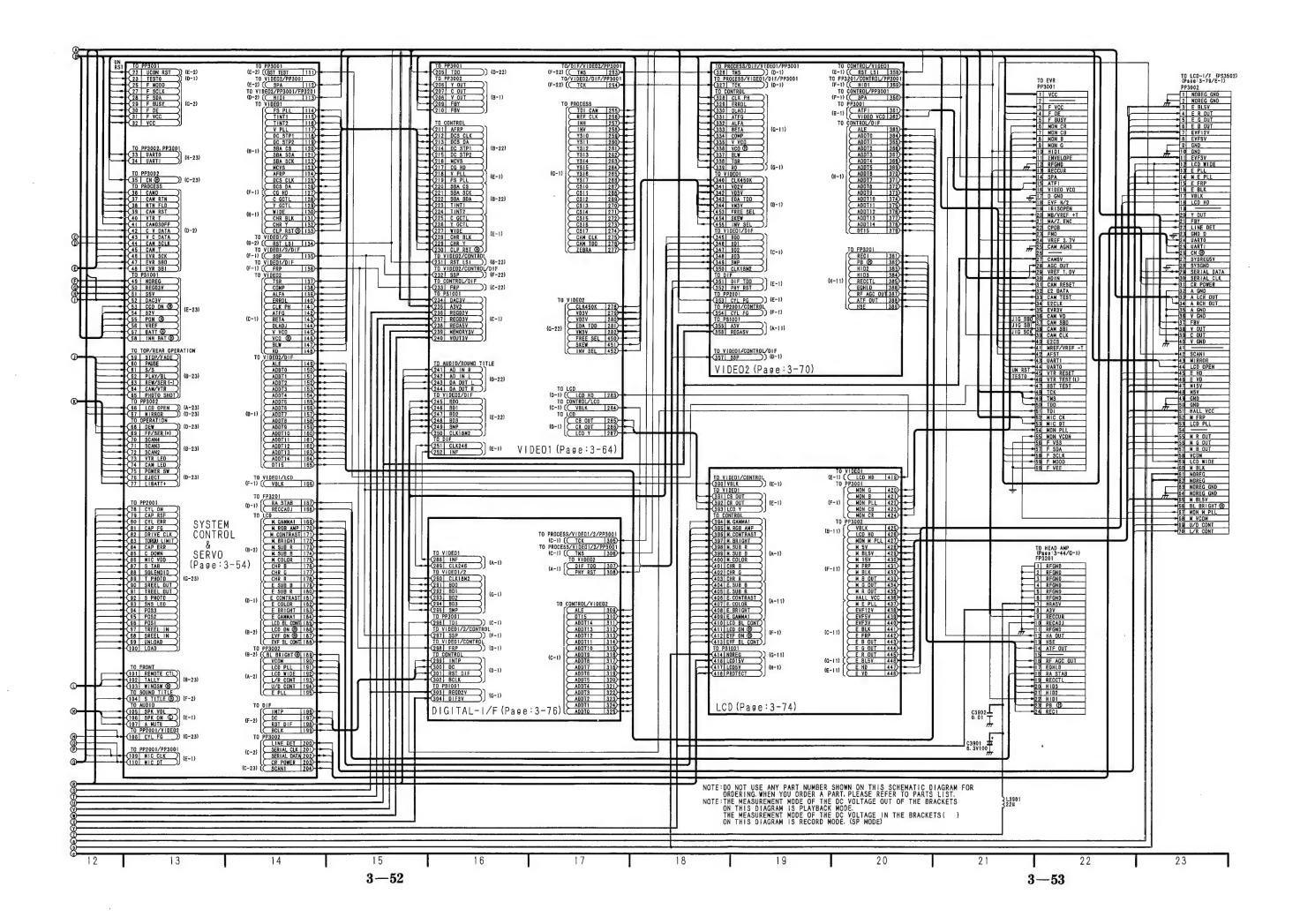
3-18. POWER SCHEMATIC DIAGRAM



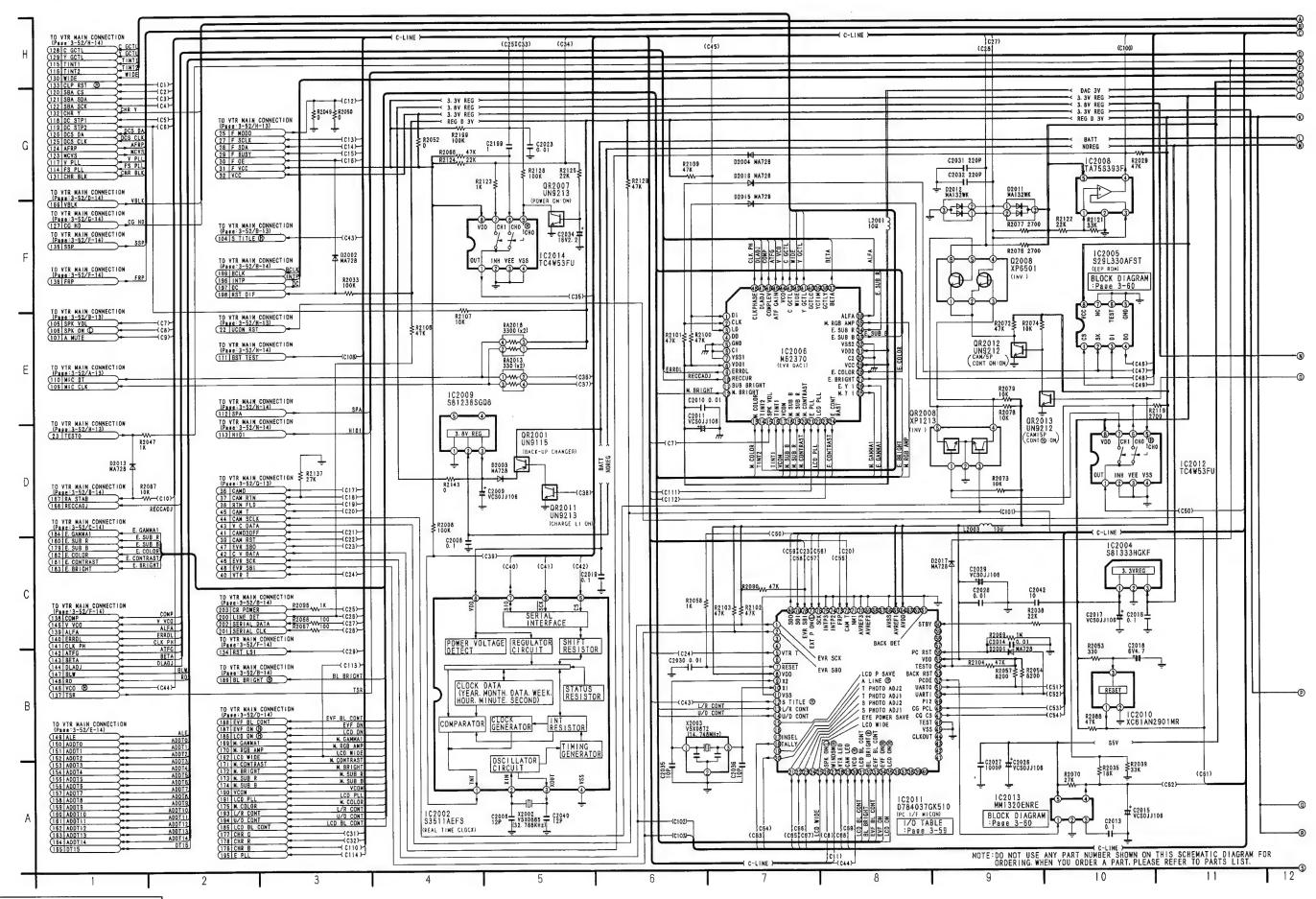
3-19. VTR MAIN CONNECTION SCHEMATIC DIAGRAM

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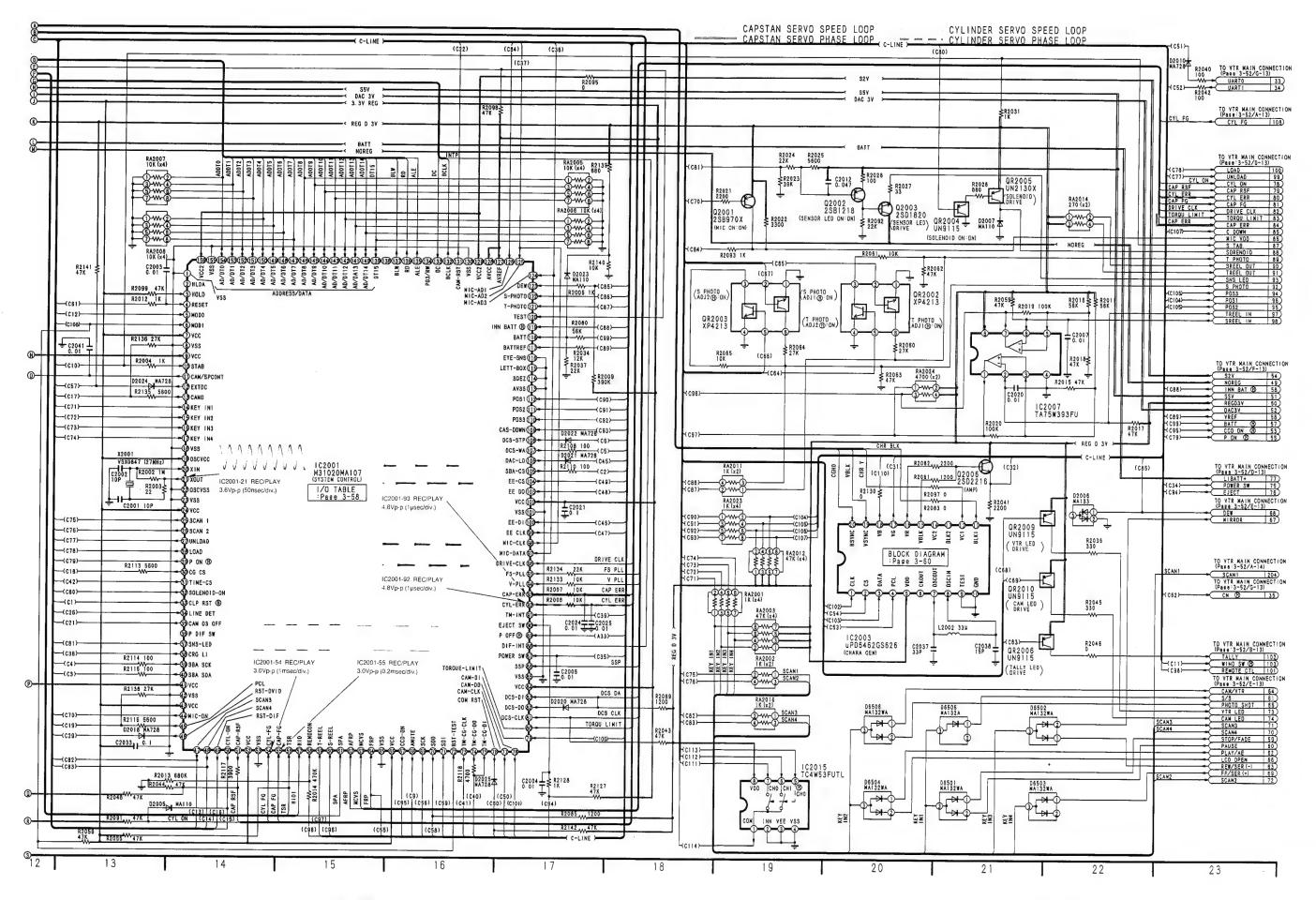




3-20. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM



Back Page: VTR MAIN CONNECTION Section



SYSTEM CONTROL I/O TABLE

IC2001 (M31020MA107): SYSTEM CONTROL MICROCOMPUTER

PIN. NO.	SIGNAL NAME	I/O	EXPLANATION	PIN. NO.	SIGNAL NAME	I/O	EXPLANATION
1	VSS	_	GND	60	S REEL	l	Supply Reel Pulse
2	HLDA	0	EXT-Bus Hold Acknowledge/BST TCK (CLK)	61	SPA	- 1	ATF Sampling Pulse
3	HOLD		EXT-Bus Hold Request	62	AFRP		AFRP
4	RESET	ı	Reset	63	MCVS	1_	MCVS
5	MOD0	1	Single Chip Mode=VSS, VSS	64	FRP		Frame Reference Pulse
6	MOD1	1	Memory Extend Mode=VSS, VCC	65	VSS		GND
7	VCC	_	Voltage	66	VCC		Voltage
8	VSS		GND	67	CCD ON	0	Camera CCD On
9	VCC	_	Voltage	68	A MUTE	0	Audio Mute
10	STAB		Safety Tab SW	69	SCK	0	Serial Clock
11	CAM/5PCONT	0	CAM/5P Select Signal	70	SDO	0	232C/5P
12	EXT DC	0	RS-232C I/F Connect Timing	71	SDI		232C/5P
13	CAMO	0	Camera Out	72	BST TEST		Boundary Scan Test SW
14	KEY IN1	1	Key Scan IN 1 /BST TD0 (data out)	73	TM CG CLK	0	Timer & Character Generator Serial Clock
15	KEY IN2	- 1	Key Scan IN 2 /BST TD1 (data in)	74	TM CG D0	0	Timer & Character Generator Serial Data Out
16	KEY IN3	1	Key Scan IN 3 /BST TMS (Test Mode Select)	75	TM CG D1	1	Timer & Character Generator Serial Data in
17	KEY IN4	1	Key Scan IN 4	76	COM RST	0	RS-232C I/F Reset
18	VSS	_	GND	77	CAM CLK	0	Camera Serial Clock
19	OSC VCC	_	Voltage	78	CAM D0	0	Camera Serial Data Out
20	XiN	l l	27MHz	79	CAM D1		Camera Serial Data In
21	XOUT	0	27MHz	80	TORQUE LIMIT	0	Capstan Torque Limit
22	OSC VSS		GND	81	DCS CLK	0	CAS & DVIO Serial Clock
23	VSS	_	GND	82	DCS D0	0	CAS & DVIO Serial Data Out
24	VCC		Voltage	83	DCS DI	1	CAS & DVIO Serial Data In
25	SCAN 1	0	Key Scan Out 1	84	VCC		Voltage
26	SCAN 2	0	Key Scan Out 2	85	VSS	_	GND
27	UNLOAD	0	Mecha Unload	86	SSP	1	Sector Start Pulse
28	LOAD	0	Mecha Load	87	POWER SW	1	Power SW
29	PON (H)	0	Power On Control	88	DIF INT	- 1	DIF INT
30	CG CS	0	H: CAM 4.5MHz, L: DV 1027MHz	89	P OFF ⊕	-	Camera Remote Control Power
31	TIME CS	0	Timer Chip Select	90	EJECT SW	1	Eject SW
32	SQL ON	0	Solenoid On	91	TM INT	1	Timer Interrupt Request
33	CLP RST (H)	0	Y CLP Discharge	92	CYL ERR	0	Cylinder Error
34	LIN DET	1	Line in Signal Detect	93	CAP ERR	0	Capstan Error
35	CAM D3 OFF	0	CAM Power Manage (18MHz Power Control) H: ON	94	V PLL	0	Video PLL
36	P DIF SW	_	(N.C.)	95	FS PLL	0	FS PLL (ATF ERR for Linear Arrangement)
37	SNS LED	0	Tape Sensor LED	96	DRIVE CLK	0	Cylinder Drive Clock
38	CRG L1	0	Charge Clock Data Out ON/OFF	97	MIC DATA	1/0	MIC Data In/Out (12C)
39	SBA SCK	0	Sub Audio Serial	98	MIC CLK	0	MIC ON (MIC/Contact ID)
40	SBA SDA	0	Sub Audio Serial	99	EE CLK	0	EEPROM & DAC Clock
41	VCC		Voltage	100	EE DI	1	EEPROM & DAC Data In
42	VSS	_	GND	101	VSS	_	GND
43	VCC		Voltage	102	VCC		Voltage
44	MID ON	0	MIC ON (MIC/Contact ID)	103	EE DO	0	EEPROM & DAC Data Out
45	PCL	0	Field Detect	104	EE DS	0	EEPROM Chip Select
46	RST DVIO	0	DV10, CAS, EDA Reset	105	SBA CS	0	Sub Audio Chip Select
47	SCAN 3	0	Key Scan Out 3	106	DAC LD	0	DAC Load
48	SCAN 4	0	Key Scan Out 4	107	DCS WA	0	DCS Serial Start
49	RST DIF	0	DIF LSI Reset	108	DCS STP	0	DCS Serial Stop
50	CYLON	0	Cylinder On	109	CAP DWN	1	Cassette Down SW
51	CAP RSF	0	Capstan On	110	POS3		Mecha Position SW3
52	VCC	_	Voltage	111	POS2	1	Mecha Position SW2
53	VSS	_	GND	112	POS1	1	Mecha Position SW1
54	CYL FG		Cylinder FG	113	AVSS	-	GND
55	CAP FG	I	Capstan FG	114	SQEZ		SQEZ
56	TSR		Track Start Referene	115	LETT BOX	1	Letter Box Detect
57	HID	1	HSW	116	EVE SNS	I	Eye Sensor Detect
58	REMODON	- 1	Remote Control Pulse	117	BATT REF	I	Battery Reference
59	TREEL		Take Up Reel Pulse	118	BATT	1	Battery Voltage Detect

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Back Page: SYSTEM CTL & SERVO Section

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	I/O	EXPLANATION
119	INN BATT 🕀	1	INN. BATT/EXT. BATT Detect	138	NC	_	(N.C.)
120	TEST	Ι	Test SW	139	DT15	1/0	EXT-Memory Address/Data BUS
121	T PHOT	I	Dew Detect	140	ADDT14	1/0	EXT-Memory Address/Data BUS
122	S PHOT	Τ	Tape Take-up Photo Sensor Detect	141	ADDT13	1/0	EXT-Memory Address/Data BUS
123	DEW	- !	Tape Supply Photo Sensor Detect	142	ADDT12	1/0	EXT-Memory Address/Data BUS
124	MIC AD3	1	Contact ID Detect 3	143	ADDT11	1/0	EXT-Memory Address/Data BUS
125	MIC AD2	П	Contact ID Detect 2	144	ADDT10	1/0	EXT-Memory Address/Data BUS
126	MIC AD1	Τ	Contact ID Detect 1	145	ADDT9	1/0	EXT-Memory Address/Data BUS
127	A VREF	_	Voltage Reference	146	ADDT8	1/0	EXT-Memory Address/Data BUS
128	A VCC	_	Voltage	147	ADDT7	1/0	EXT-Memory Address/Data BUS
129	VCC2		Voltage	148	ADDT6	1/0	EXT-Memory Address/Data BUS
130	VSS		GND	149	ADDT5	1/0	EXT-Memory Address/Data BUS
131	CAM RST	0	Camera Reset	150	ADDT4	1/0	EXT-Memory Address/Data BUS
132	BCLK	0	B CLK	151	ADDT3	1/0	EXT-Memory Address/Data BUS
133	DC	- 1	Data Complete for EXT-memory Mode	152	ADDT2	1/0	EXT-Memory Address/Data BUS
134	PO3/RW	0	(N.C.)	153	ADDT1	1/0	EXT-Memory Address/Data BUS
135	ALE	0	Address Latch Enable for EXT-Memory Mode	154	ADDT0	1/0	EXT-Memory Address/Data BUS
136	RD	0	Read Strobe for EXT-Memory Mode	155	VSS	_	GND
137	BLW	0	Byte Low Write for EXT-Memory Mode	156	VCC2		Voltage

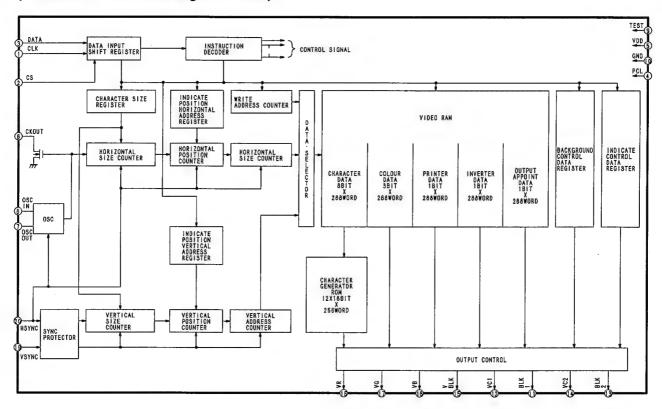
IC2011 (D784037GK510): RS-232C INTERFACE MICROCOMPUTER

PIN. NO.	SIGNAL NAME	I/O	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	EVR SCK	0	Serial Clock Signal for SYNC Serial	46	TEST		GND
			Communication (To Camera Micom)	47	CGCS	0	CG CS
2	EVR SBO	0	Serial Data Signal for SYNC Serial	48	CGPCL	0	CG PCL
			Communication (To Camera Micom)	49	P12		(N.C.)
5	VTRT	0	SYNC Serial Communication Enable	50	UARTI		RS-232C Data
			Signal for Camera Micom	51	UARTO	0	RS-232C Data
7	RESET	I	Reset Signal	52	PCOE	0	RS-232C Driver Output Enable
8	VDD	_	VDD (+3V)	53	BACK RST		(N.C.)
9	X2	0	Oscillator (14.7456MHz)	54	TEST0	1	VTR Test Signal
10	X1	ı	Oscillator (14.7456MHz)				(H: Normal, L: Test Mode)
11	VSS	_	GND	55	VDD		VDD (+3V)
12	STITLE	0	Sound Effect Control Signal	56	PC RST		Reset Signal Detect (AD Input)
13	L/R CONT	0	LCD Driver Control (L/R Invert)	60	STBY		RS-232C Cable Connect Confirm
14	U/D CONT	0	LCD Driver Control (U/D Invert)	61	BACK DET		GND
15	LCD P SAVE	_	(N.C.)	64	AVDD		Voltage for AD Converter (+3V)
17	INSEL	_	(N.C.)	65 AVREF1	AV/DEE1		Reference Voltage for AD Converter
18	TALLY	0	TALLY LED Control		AVNELI		(+3V)
19	A LINE 🕀		(N.C.)	66	AVSS	_	GND for AD Converter
20	T PH AD2	0	Take u	67	ANO0	_	(N.C.)
21	T PH AD1	0	Take u	68	ANO1	_	(N.C.)
22	S PH AD2	0	Supply Tape Sensor	69	AVREF2	_	GND
23	S PH AD1	0	Supply Tape Sensor	70	AVREF3		GND
24	EYE P SAVE		(N.C.)	71	NM1	_	GND
25	LCD WIDE	0	LCD Driver Wide Select	72 CAM T	CAMT	T .	Camera Service/232C Micom Select
26	SPK ON ①	0	Speaker ON	1 ′′	CAIVIT	'	Signal (H: 232C, L: Camera Service)
27	WIDNSW (H)	0	Noise Silent	73	FRP	1	Frame SYNC Signal
28	VTR LED	0	VTR Mode LED	76	SCK	l	Serial Clock Signal for SYNC Serial
29	CAM LED	0	CAMERA Mode LED		SCK		Communication (To VTR Micom)
30	VCO ⊕	0	VCO Test Mode ⊕	77	EXT P ON ©	ı	SYNC Serial Communication Enable Signal for VTR Micom
31	LCD BL CONT	0	LCD Back Light Control Signal				
32	BL BRIGHT (H)	0	Back Light Bright Control Signal	78	EVR SBI	l	Serial Data Input for SYNC Serial
33	EVF BL CONT	0	EVF Back Light Control Signal				Communication (To Camera Micom)
34	EVF ON	0	EVF ON	79	SDI	ı	Serial Data for SYNC Serial
35	LCD ON	0	LCD ON				Communication (To VTR Micom)
44	CLKOUT	_	(N.C.)	80	SDO	0	Serial Data for SYNC Serial Communication (To VTR Micom)
45	VSS	_	GND				

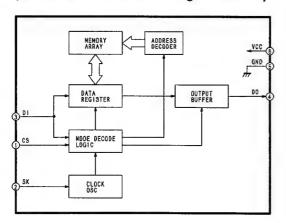
SYSTEM CONTROL IC BLOCK

IC2003:uPD6462GS626

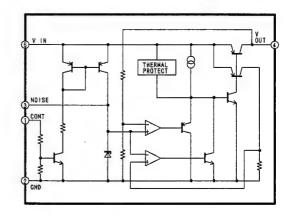
(SCHEMATIC DIAGRAM: Page 3-57/C-20)



IC2005:S29L330AFST (SCHEMATIC DIAGRAM:Page 3-55/F-10)



IC2013:MM1320ENRE (SCHEMATIC DIAGRAM:Page 3-55/A-9)



SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

NODE	31316		-												. 10						
STOP 0	REF. NO.	4	_	2	4	-	6	7	0				10	10	14	15	16	17	10	10	20
PALY 0	-																				1.6
REF. NO																					1.6
FF						-								_	_						1.6
REF. NO																			-	_	1.6
NODE											_										1.6
NODE 21 22 23 24 28 28 27 28 29 30 31 32 33 34 35 36 37 38 39 37 38 39 28 27 28 29 30 31 32 33 34 35 36 37 38 39 33 34 35 36 37 38 39 28 34 33 33 33 34 35 36 37 38 39 28 34 33 33 33 34 35 36 28 34 34 35 36 37 38 39 34 35 36 37 38 39 34 35 36 37 38 39 34 35 36 37 38 39 34 35 36 37 38 39 34 35 36 37 38 39 34 35 36 37 38 39 34 35 36 37 38 39 34 35 36 37 38 39 34 35 36 37 38 39 34 35 36 37 38 39 34 35 36 37 38 39 34 35 36 37 38 39 34 35 36 37 38 39 38 38 38 38 38 38			0.0	0.0	0.0		0.0	0.0		0.0			5.5	•							
PAY 1.6 0		21	22	23	24	25	26	27	28	29			32	33	34	35	36	37	38	39	40
REC 1.6 0					_			0		-							3.3	3.3	3.3	3.3	3.3
FF	PLAY	1.6	0	0	3.3	3.3	3.3	0	0	3.2	0	2.8	3.3	0	2.8	0	0	3.3	3.3	3.3	0
REF. NO.	REC	1.6	0	0	3.3	3.3	3.3	0	0	3.2	3.3	2.8	3.3	0	2.8	3.3	3.3	3.3	3.3	3.3	3.3
Note Note	F.F	1.6	0	0	3.3	3.3	3.3	0	0	3.2	0	2.8	3.3	0	2.8	0	0	3.0	3.3	3.3	0
MODE	REW	1.6	0	0	3.3	3.3	3.3	0	0	3.2	0	2.8	3.3	0	2.8	0	0	3.0	3.3	3.3	0
STOP 33 0 33 33 17 33 33 33 33 33																					
PIAY 3.3 0 3.3 3.3 1.7 3.3 3.3 3.3 3.3 0 0 3.3 0 1.4 1.8 1.4 1.4 2.7 1.9				_			-												_		60
REC			_	-													_		_		0.1
FF														_					_		2.5
REF. NO. NODE			_	-		_						_		_				_	-		2.0
NODE																			-		1.6
MODE 61		3.3	0	3.3	3.3	1.6	3.3	3.3	3.3	3.3			3.3	0	1.4	1.6	1.4	1.4	2.7	1.6	1.6
STOP		61	60	62	64	65	66	67	60	60		_	70	70	74	75	76	77	70	70	80
PLAY 0					-								_				_	-			0.2
REC		-	_	_		_															0.2
F.F.										_			-				_				0.2
REF. NO			$\overline{}$			_							_	$\overline{}$	_				_		0.2
NODE												_								_	0.2
STOP 3.2 2.5 2.2 3.3 0 0 0 3.0 0 3.3 3.3 1.6 0 0 0 1.5 2.8 2.8 0																					
PLAY 3.2 2.5 2.2 3.3 0 0 0 3.0 0 3.3 3.3 1.6 1.2 0 1.5 1.6 2.8 2.8 0		81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	STOP	3.2	2.5	2.2	3.3	0	0	0	3.0	0	3.3	3.3	1.6	0	0	0	1.6	2.8	2.8	0	0.7
F.F. 3.2 2.5 2.2 3.3 0 0 0 2.9 0 3.3 1.6 1.2 0 1.5 1.6 2.8 2.8 3.3	PLAY	3.2	2.5	2.2	3.3	0	0	0	3.0	0	3.3	3.3	1.6	1.2	0	1.5	1.6	2.8	2.8	0	1.1
REF. NO.	REC	3.2	2.5	2.2	3.3	0	0	0	2.9	0	3.3		1.6	1.2	0	0	1.6	2.8	2.8	_	1.0
Name					_	_			_			_							_		1.4
MODE		3.2	2.5	2.2	3.3	0	0	0	2.9	0			1.6	1.2	0	1.5	1.6	2.8	2.8	3.3	1.0
STOP																					
PLAY 0 3.3 0 0 0 3.2 0 2.6 2.9 0 0 0 0 0 0 0 0 0 0 1.5 2.1 0 REC 0 3.3 0 0 3.2 0 2.6 2.9 0 0 0 0 0 0 0 0 0 0 1.5 2.1 0 REC 0 3.3 0 0 0 3.2 0 2.6 2.9 0 2.8 2.8 0 0 0 0 0 0 1.5 2.1 0 REW 0 3.3 0 0 0 3.2 0 2.6 2.9 0 2.8 2.8 0 0 0 0 0 0 0 1.5 2.1 0 REW 0 3.3 0 0 0 3.2 0 2.6 2.9 0 2.8 2.8 0 0 0 0 0 0 0 1.5 2.1 0 REW 0 3.3 0 0 0 3.2 0 2.6 2.9 0 2.8 2.8 0 0 0 0 0 0 0 1.5 2.1 0 REW 0 3.3 0 0 0 3.2 0 2.6 2.9 0 2.8 2.8 0 0 0 0 0 0 0 0 1.5 2.1 0 REW 0 0 3.3 0 0 0 3.2 0 2.6 2.9 0 2.8 2.8 2.8 0 0 0 0 0 0 0 0 1.5 2.1 0 REW 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			_		_	_			_				_				_	_	_	_	120 3.3
REC 0 3.3 0 0 0 3.2 0 2.6 2.9 0 0 0 0 0 0 0 0 0 0 1.5 2.1 0 F.F 0 3.3 0 0 3.2 0 2.6 2.9 0 2.8 2.8 0 0 0 0 0 0 1.5 2.1 0 REW 0 3.3 0 0 3.2 0 2.6 2.9 0 2.8 2.8 0 0 0 0 0 0 1.5 2.1 0 REF. NO. MODE 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 STOP 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 0 2.3 2.2 2.2 0.1 REC 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 0 2.2 2.2 2.2 0.1 REC 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 0 2.2 2.2 2.2 0.1 REC 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 0 2.2 2.2 2.2 0.1 REF. NO. MODE 1 1 122 133 144 145 146 147 148 149 150 151 152 153 154 155 156 STOP 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1			_		_				_					_			_		_		1.3
F.F. O					_																3.3
REW 0 3.3 0 0 0 3.2 0 2.6 2.9 0 2.8 2.8 2.8 0 0 0 0 0 1.5 2.1 0 REF. NO. NODE 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139		-																			3.3
NODE 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139		_											_						-		3.3
MODE 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 STOP 0 0 0 0 0 2.8 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 0 2.3 2.2 2.2 0.1 REC 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 0 0 2.2 2.2 2.2 0.1 REC 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 0 2.2 2.2 2.2 0.1 REC 0 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 0 2.3 2.2 2.2 0.1 REC 0 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 0 2.3 2.2 2.2 0.1 REC 0 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 0 0 2.3 2.2 2.2 0.1 REC 0 1 0 1 0.					·					-											
PLAY 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 2.2 2.2 2.2 0.1 REC 0 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 0 2.3 2.2 2.2 0.1 F.F 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 0 2.2 2.2 2.2 0.1 REW 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 0 2.2 2.2 2.2 0.1 REF. NO. MODE 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 STOP 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1		121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
REC O O O 2.8 2.8 2.8 3.3 3.3 2.3 O 2.3 1.0 O O O 0 2.3 2.2 2.2 0.1	STOP	0	0	Ò	2.8	2.8	2.8	3.3	3.3	2.3	0	2.3	1.0	0	0	0	2.3	2.2	2.2	0.1	0.1
F.F. 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 2.2 2.2 2.2 2.2 0.1 REW 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 0 2.3 2.2 2.2 0.1 REF. NO. IC2001 IC2002 IC2001 IC2001 IC2002 IC2001 IC2002 PLAY	0	0	0	2.8	2.8	2.8	3.3	3.3	2.3	0	2.3	1.0	0	0	0	2.2	2.2	2.2	0.1	0.1	
REW 0 0 0 0 2.8 2.8 2.8 3.3 3.3 2.3 0 2.3 1.0 0 0 0 2.3 2.2 2.2 0.1 REF. NO. IC2001 Id	REC	0	0	0	2.8	2.8	2.8		3.3	2.3	$\overline{}$	2.3	1.0			0				0.1	0.1
REF. NO.			-											_		_	-				0.1
MODE		0	0	0	2.8	2.8	2.8	3.3	3.3	2.3			1.0	0	0	0	2.3	2.2	2.2	0.1	0.1
STOP		444	140	140	144	4.45	140	4.47	140	1.40			150	100	154	100	150		T		
PLAY 0.1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>																					
REC 0.1 <td></td> <td></td> <td></td> <td>_</td> <td></td> <td>-</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>				_		-		_					-	-						-	
F.F. 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.																					
REW 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1			-			_															
REF. NO.		_	_		_		-	-		-	$\overline{}$	_	-	_							
MODE 1 2 3 4 5 6 7 8				1	<u> </u>	1			, ,,,,				<u> </u>	. <u> </u>							
STOP 3.3 0.5 0.6 0 2.8 3.3 1.3 3.6 Image: square s	\	1	2	3	4	5	6	7	8	T									T		
PLAY 3.3 0.5 0.6 0 2.8 3.3 1.3 3.6 Image: square s			_	_																	
REC 3.3 0.5 0.6 0 2.8 3.3 1.3 3.6					·	_															
REW 3.3 0.5 0.7 0 2.8 3.3 1.3 3.6 IC2003 MODE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 STOP 2.3 0 0.7 2.8 2.8 0 1.1 1.2 0 0 0 0 0.1 0.1 0.1 0 2.4 PLAY 2.3 0 0.9 2.8 2.8 0 1.1 1.2 0 0 0 0 0 0.1 0.1 0.1 0 2.3 REC 2.3 0 0.7 2.8 2.8 0 1.1 1.2 0					_	_	_	_	_												
REF. NO. MODE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 STOP 2.3 0 0.7 2.8 2.8 0 1.1 1.2 0 0 0 0 0.1 0.1 0.1 0 2.4 PLAY 2.3 0 0.9 2.8 2.8 0 1.1 1.2 0 0 0 0 0 0.1 0 0 2.3 REC 2.3 0 0.7 2.8 2.8 0 1.1 1.2 0	F.F	3.3	0.5	0.7	0	2.8	3.3	1.3	3.6												
MODE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 STOP 2.3 0 0.7 2.8 2.8 0 1.1 1.2 0 0 0 0 0.1 0.1 0.1 0 2.4 PLAY 2.3 0 0.9 2.8 2.8 0 1.1 1.2 0 0 0 0 0 0.1 0 0 0 2.3 REC 2.3 0 0.7 2.8 2.8 0 1.1 1.2 0 0 0 0 0 0.1 0.1 0.1 0 2.4 F.F 2.3 0 0.9 2.8 2.8 0 1.1 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	REW	3.3	0.5	0.7	0	2.8	3.3	1.3	3.6												
STOP 2.3 0 0.7 2.8 2.8 0 1.1 1.2 0 0 0 0 0 0.1 0.1 0.1 0 2.4 PLAY 2.3 0 0.9 2.8 2.8 0 1.1 1.2 0	REF. NO.										IC2	003									
PLAY 2.3 0 0.9 2.8 2.8 0 1.1 1.2 0		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC 2.3 0 0.7 2.8 2.8 0 1.1 1.2 0 0 0 0 0 0.1 0.1 0.1 0 2.4 F.F 2.3 0 0.9 2.8 2.8 0 1.1 1.2 0	STOP	2.3	0	0.7	2.8	2.8	0	1.1	1.2	0	'0	0	0	0	0	0.1	0.1	0.1	0	2.4	2.2
F.F 2.3 0 0.9 2.8 2.8 0 1.1 1.2 0 0 0 0 0 0 0.1 0 0 0 2.3	PLAY		0	0.9	2.8	2.8	0	1.1	1.2	0	0	0	0	0	0	0.1	0	0	0	2.3	2.2
	REC	2.3	0	0.7	2.8	2.8	0	1.1	1.2	0	0	0	0	0	0	0.1	0.1	0.1	0	2.4	2.2
	F.F	2.3	0	0.9	2.8	2.8	0	1.1	1.2	0	0	0	0	0	0	0.1	0		0		2.2
HEW 2.3 0 0.7 2.8 2.8 0 1.1 1.2 0 0 0 0 0 0.1 0 0 0 2.3	REW	2.3	0	0.7	2.8	2.8	0	1.1	1.2	0	0	0	0	0	0	0.1	0	0	0	2.3	2.2

SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

REF. NO.				_	IC.	2004									100					
MODE	1	2	3		T 102	1		T	Τ	T	1	2	,	1	T	2005	7	1 0	т -	
STOP	3.3	0	7.6		ł		-		-	-		0	3	4	5	6	_	8		-
PLAY	3.3	0	7.6	-	 			-		-	0		0	0.9	0	0	0	3.3		-
REC	3.3	0	7.6	<u> </u>			-		-		0	0	0	0.6	0	0	0	3.3	-	_
F.F	3.3	0	-		-			 			0	0	0	0.9	0	0	0	3.3		
REW	3.3	0	7.6	-	 	-	-	-		 	0	3.3	0	0.5	0	0	0	3.3		-
REF. NO.	3.3	1 0	7.6		<u> </u>	l		L	l	100	0	3.3	0	0.5	0	0	0	3.3	L	
MODE .	1	2		1	Τ.	1	7	1 0		1	006	40	- 10		1		T	1	γ	
	1		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0.2	0.2	0.2	0	0	0	0_	2.8	0.9	1.7	2.5	1.8	1.1	1.8	2.2	1.8	1.7	1.6	1.6	1.5
PLAY	0.2	0.2	0.2	0_	0	0	0	2.8	0.9	1.7	2.5	1.8	1.1	1.8	2.2	1.8	1.7	1.6	1.6	1.5
REC	0.2	0.2	0.2	0	0	0	0	2.8	0.9	1.7	2.5	1.8	1.1	1.8	2.2	1.8	1.7	1.6	1.6	1.5
F.F	0.2	2.8	0.2	0	0	0	0	2.8	0.9	1.7	2.5	1.8	1.1	1.8	2.2	1.8	1.7	1.6	1.6	1.5
REW	0.2	2.8	0.2	0	0	0	0	2.8	0.9	1.7	2.5	1.8	1.1	1.8	2.2	1.8	1.7	1.6	1.6	1.5
REF. NO.	- 04	1 00	- 00				T				006							т —		
STOP	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	2.0	1.8	2.0	1.4	1.1	0.4	0.9	0.8	2.8	0	2.8	0	1.5	1.6	1.3	1.6	1.4	2.8	2.8	2.8
PLAY	2.0	1.8	2.0	1.4	1.2	0.4	0.9	0.8	2.8	0	2.8	0	1.5	1.6	1.3	1.6	1.4	2.8	2.8	2.8
REC	2.0	1.8	2.0	1.4	1.2	0.4	0.9	0.8	2.8	0	2.8	0	1.5	1.6	1.3	1.6	1.4	2.8	2.8	2.8
F.F	2.0	1.8	2.0	1.4	1.2	0.4	0.9	0.8	2.8	0	2.8	0	1.5	1.6	1.3	1.6	1.4	2.8	2.8	2.8
REW	2.0	1.8	2.0	1.4	1.2	0.4	0.9	0.8	2.8	0	2.8	0	1.5	1.6	1.3	1.6	1.4	2.8	2.8	2.8
REF. NO.		1	T		T					IC2	006		_						-	
MODE	41	42	43	44	45	46	47	48										-		
STOP	0	0	0	1.6	1.8	1.3	1.0	1.3								<u> </u>				
PLAY	0	0	0	1.6	1.8	1.3	1.0	1.3												
REC	0	0	0	1.6	1.8	1.3	1.0	1.3												
F.F	0	0	0	1.6	1.8	1.3	1.0	1.3												
REW	0	0	0	1.6	1.8	1.3	1.0	1.3		L										
REF. NO.						007	r				<u> </u>					800				
MODE	1	2	3	4	5	6	7	8			1	2	3	4	_ 5					
STOP	2.8	1.1	1.6	0	1.6	0.2	2.8	2.8			3.0	0	4.9	2.6	5.1					
PLAY	2.8	2.3	1.6	0	1.6	2.4	2.8	2.8			3.0	0	4.8	2.6	5.1					
REC	2.8	2.3	1.6	0	1.6	2.4	2.8	2.8			3.0	0	4.9	2.6	5.1					
F.F																				
	1.5	1.1	1.3	0	1.3	1.2	1.5	2.8			3.0	0	4.8	2.6	5.1					
REW	1.5	1.1	1.3	0	1.3	1.2	1.5	2.8 2.8			3.0	0	4.8	2.6	5.1 5.1					
REW REF. NO.	1.5	1.1	1.3		1.3 IC2	1.2								_	5.1	010				
REW REF. NO. MODE	1.5	1.1	1.3	0	1.3 IC2 5	1.2					3.0			_	5.1	010				
REW REF. NO. MODE STOP	1.5	1.1 2 7.6	1.3 3 3.8	0 4 0	1.3 IC2 5 0	1.2					3.0 1 3.3	0	4.8	_	5.1	010				
REW REF. NO. MODE STOP PLAY	1.5 1 0	1.1 2 7.6 7.6	3 3.8 3.8	0 4 0 0	1.3 IC2 5 0	1.2					3.0 1 3.3 3.3	2	3 3.3 3.3	_	5.1	010				
REW REF. NO. MODE STOP PLAY REC	1.5 1 0 0	1.1 2 7.6 7.6 7.6	3 3.8 3.8 3.8	0 4 0 0	1.3 IC2 5 0 0	1.2					3.0 1 3.3 3.3 3.3	2 0	3 3.3 3.3 3.3	_	5.1	010				
REW REF. NO. MODE STOP PLAY REC F.F	1.5 1 0 0 0	1.1 2 7.6 7.6 7.6 7.6	3 3.8 3.8 3.8 3.8	0 4 0 0 0	1.3 IC2 5 0 0 0	1.2					3.0 1 3.3 3.3 3.3 3.3	0 2 0 0 0	3 3.3 3.3 3.3 3.3	_	5.1	010				
REW REF. NO. MODE STOP PLAY REC F.F REW	1.5 1 0 0	1.1 2 7.6 7.6 7.6	3 3.8 3.8 3.8	0 4 0 0	1.3 IC2 5 0 0	1.2					3.0 1 3.3 3.3 3.3 3.3 3.3	0 2 0 0	3 3.3 3.3 3.3	_	5.1	010				
REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO.	1.5 1 0 0 0 0	1.1 2 7.6 7.6 7.6 7.6 7.6	3 3.8 3.8 3.8 3.8 3.8	0 0 0 0 0	1.3 IC2 5 0 0 0	1.2	1.5	2.8		IC2	3.0 1 3.3 3.3 3.3 3.3 3.3 3.3	0 2 0 0 0 0	3 3.3 3.3 3.3 3.3 3.3 3.3	2.6	5.1 IC2	010				
REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE	1.5 1 0 0 0 0	1.1 2 7.6 7.6 7.6 7.6 7.6	3 3.8 3.8 3.8 3.8 3.8 3.8	0 4 0 0 0 0 0	1.3 IC2 5 0 0 0 0	1.2	7	2.8	9	10	3.0 1 3.3 3.3 3.3 3.3 3.3 3.1 11	0 2 0 0 0 0	3 3.3 3.3 3.3 3.3 3.3 3.3	2.6	5.1	010	17	18	19	20
REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP	1.5 1 0 0 0 0 0 1 2.3	7.6 7.6 7.6 7.6 7.6 7.6 7.6	3 3.8 3.8 3.8 3.8 3.8 3.8	0 4 0 0 0 0 0	1.3 IC2 5 0 0 0 0 0	1.2 009 6 0	7 2.8	2.8 8 2.8	1.4	10 1.1	3.0 1 3.3 3.3 3.3 3.3 3.3 3.1 11 0	0 2 0 0 0 0 0	3 3.3 3.3 3.3 3.3 3.3 3.3	2.6 14 2.8	5.1 IC2	16	0	2.8	19 0	20
REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY	1.5 1 0 0 0 0 0 1 2.3 2.2	2 7.6 7.6 7.6 7.6 7.6 7.6 0.6 0.8	3 3.8 3.8 3.8 3.8 3.8 3.8 0	0 4 0 0 0 0 0 0	1.3 IC2 5 0 0 0 0 0 0	1.2 009 6 0	7 2.8 2.8	8 2.8 2.8 2.8	1.4	10 1.1 0.9	3.0 1 3.3 3.3 3.3 3.3 3.3 3.1 11 0 0	0 2 0 0 0 0 0 0	3 3.3 3.3 3.3 3.3 3.3 3.3 0	14 2.8 2.8	5.1 IC2	16 0	0	2.8	0	
REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC	1.5 1 0 0 0 0 0 1 2.3 2.2 2.3	2 7.6 7.6 7.6 7.6 7.6 7.6 0.6 0.8	3 3.8 3.8 3.8 3.8 3.8 3.8 0 0	0 4 0 0 0 0 0 0	1.3 IC2 5 0 0 0 0 0 0 2.8 2.8	1.2 009 6 0 0	7 2.8 2.8 2.8	8 2.8 2.8 2.8 2.8	1.4 1.4 1.4	10 1.1 0.9 1.0	3.0 1 3.3 3.3 3.3 3.3 3.3 011 11 0 0	0 2 0 0 0 0 0 0	3 3.3 3.3 3.3 3.3 3.3 0 0	14 2.8 2.8 2.8	15 2.8 2.8 2.8	16	0	2.8	0	0 0
REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F	1.5 0 0 0 0 0 1 2.3 2.2 2.3 2.2	2 7.6 7.6 7.6 7.6 7.6 7.6 0.6 0.8	3 3.8 3.8 3.8 3.8 3.8 0 0	0 0 0 0 0 0 0 0	1.3 IC2 5 0 0 0 0 0 5 2.8 2.8 2.8	6 0 0 0	7 2.8 2.8 2.8 2.8	8 2.8 2.8 2.8 2.8 2.8	1.4 1.4 1.4 1.4	10 1.1 0.9 1.0 0.9	3.0 1 3.3 3.3 3.3 3.3 3.1 11 0 0 0	0 0 0 0 0 0 0 0	3 3.3 3.3 3.3 3.3 3.3 0 0	14 2.8 2.8 2.8 2.8	15 2.8 2.8 2.8 2.8	16 0 0 0	0 0 0	2.8 2.8 0 2.8	0 0 0	0 0 0
REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW	1.5 1 0 0 0 0 0 1 2.3 2.2 2.3	2 7.6 7.6 7.6 7.6 7.6 7.6 0.6 0.8	3 3.8 3.8 3.8 3.8 3.8 3.8 0 0	0 4 0 0 0 0 0 0	1.3 IC2 5 0 0 0 0 0 0 2.8 2.8	1.2 009 6 0 0	7 2.8 2.8 2.8	8 2.8 2.8 2.8 2.8	1.4 1.4 1.4	10 1.1 0.9 1.0 0.9 0.9	3.0 1 3.3 3.3 3.3 3.3 3.1 11 0 0 0 0	0 2 0 0 0 0 0 0	3 3.3 3.3 3.3 3.3 3.3 0 0	14 2.8 2.8 2.8	15 2.8 2.8 2.8	16 0 0	0	2.8 2.8 0	0 0	0 0
REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO.	1.5 0 0 0 0 0 1 2.3 2.2 2.3 2.2	1.1 2 7.6 7.6 7.6 7.6 7.6 7.6 0.6 0.8 0.8 0.8	3.8 3.8 3.8 3.8 3.8 3.8 0 0	4 0 0 0 0 0 0 0	1.3 IC2 5 0 0 0 0 0 5 2.8 2.8 2.8 2.8	6 0 0 0	7 2.8 2.8 2.8 2.8 2.8	8 2.8 2.8 2.8 2.8 2.8 2.8	1.4 1.4 1.4 1.4 1.4	10 1.1 0.9 1.0 0.9 0.9	3.0 1 3.3 3.3 3.3 3.3 3.3 3.3 011 11 0 0 0 0 0	2 0 0 0 0 0 0 0	3 3.3 3.3 3.3 3.3 3.3 3.3 0 0 0	14 2.8 2.8 2.8 2.8 2.8	15 2.8 2.8 2.8 2.8	16 0 0 0 0	0 0 0 0	2.8 2.8 0 2.8 2.8	0 0 0 0	0 0 0 0 0
REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO.	1.5 0 0 0 0 0 1 2.3 2.2 2.3 2.2 2.1	2 7.6 7.6 7.6 7.6 7.6 7.6 0.8 0.8 0.8	3 3.8 3.8 3.8 3.8 3.8 3.8 0 0 0	4 0 0 0 0 0 0 0 0 0 0	1.3 IC2 5 0 0 0 0 0 5 2.8 2.8 2.8 2.8 2.8	6 0 0 0 0	7 2.8 2.8 2.8 2.8 2.8	2.8 8 2.8 2.8 2.8 2.8 2.8 2.8	1.4 1.4 1.4 1.4 1.4	10 1.1 0.9 1.0 0.9 0.9 1C2	3.0 1 3.3 3.3 3.3 3.3 3.3 3.3 3.1 11 0 0 0 0 0 0 0 0 11 31	2 0 0 0 0 0 0 0 0	3 3.3 3.3 3.3 3.3 3.3 3.3 0 0 0 0	14 2.8 2.8 2.8 2.8 2.8	15 2.8 2.8 2.8 2.8 35	16 0 0 0 0 0	0 0 0 0 0	2.8 2.8 0 2.8 2.8	0 0 0 0 0	0 0 0 0 0
REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REC F.F REW REC F.F REW REC F.F REW REC F.F REW REC F.F REW REF. NO.	1.5 1 0 0 0 0 1 2.3 2.2 2.3 2.2 2.1	1.1 2 7.6 7.6 7.6 7.6 7.6 7.6 0.8 0.8 0.8 0.8 0.8	3 3.8 3.8 3.8 3.8 3.8 3.8 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	1.3 IC2 5 0 0 0 0 0 5 2.8 2.8 2.8 2.8 2.8	1.2 009 6 0 0 0 0 0	7 2.8 2.8 2.8 2.8 2.8 2.8	2.8 8 2.8 2.8 2.8 2.8 2.8 2.8	1.4 1.4 1.4 1.4 1.4	10 1.1 0.9 1.0 0.9 0.9 1C2 30	3.0 1 3.3 3.3 3.3 3.3 3.3 011 11 0 0 0 0 0 011 31 2.8	0 0 0 0 0 0 0 12 0 0 0 0	3.3 3.3 3.3 3.3 3.3 3.3 3.3 0 0 0 0 0	14 2.8 2.8 2.8 2.8 2.8 2.8	15 2.8 2.8 2.8 2.8 2.8	16 0 0 0 0 0	0 0 0 0 0	2.8 2.8 0 2.8 2.8	0 0 0 0	0 0 0 0 0
REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE	1.5 1 0 0 0 0 1 2.3 2.2 2.3 2.2 2.1 21 2.8 2.8	1.1 2 7.6 7.6 7.6 7.6 7.6 7.6 0.8 0.8 0.8 0.8 0.8	3.8 3.8 3.8 3.8 3.8 3.8 0 0 0 0 0 0	0 4 0 0 0 0 0 0 0 0 0 0 0 0 0	1.3 IC2 5 0 0 0 0 0 5 2.8 2.8 2.8 2.8 2.8	1.2 009 6 0 0 0 0 0	7 2.8 2.8 2.8 2.8 2.8 2.7 0	2.8 8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	1.4 1.4 1.4 1.4 1.4 29 0 2.8	10 1.1 0.9 1.0 0.9 0.9 IC2 30 0	3.0 1 3.3 3.3 3.3 3.3 3.3 011 11 0 0 0 0 0 0 011 31 2.8 2.8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.3 3.3 3.3 3.3 3.3 3.3 3.3 0 0 0 0 0	2.6 14 2.8 2.8 2.8 2.8 2.8 2.8	15 2.8 2.8 2.8 2.8 2.8 2.8	16 0 0 0 0 0	0 0 0 0 0 0	2.8 2.8 0 2.8 2.8	0 0 0 0 0	0 0 0 0 0
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REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REF. NO.	1.5 1 0 0 0 0 1 2.3 2.2 2.3 2.2 2.1 2.8 2.8 2.8	2 7.6 7.6 7.6 7.6 7.6 0.8 0.8 0.8 0.8 0.8	3.8 3.8 3.8 3.8 3.8 3.8 0 0 0 0 0 0 23 2.8 2.8 2.8 2.8	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.3 IC2 5 0 0 0 0 0 0 5 2.8 2.8 2.8 2.8 2.8 0 0 0	1.2 0009 6 0 0 0 0 0 26 2.8 0 2.8 2.8	7 2.8 2.8 2.8 2.8 2.8 0 0	2.8 8 2.8 2.8 2.8 2.8 2.8 2.8 2.	1.4 1.4 1.4 1.4 1.4 29 0 2.8 0	10 1.1 0.9 1.0 0.9 0.9 IC2 30 0 0	3.0 1 3.3 3.3 3.3 3.3 3.3 3.3 011 11 0 0 0 0 0 011 2.8 2.8 2.8 2.8	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0 0 0	14 2.8 2.8 2.8 2.8 2.8 0 0	15 2.8 2.8 2.8 2.8 2.8 2.8	16 0 0 0 0 0	0 0 0 0 0 0	2.8 0 2.8 2.8 2.8 38 0	0 0 0 0 0 0	0 0 0 0 0 0
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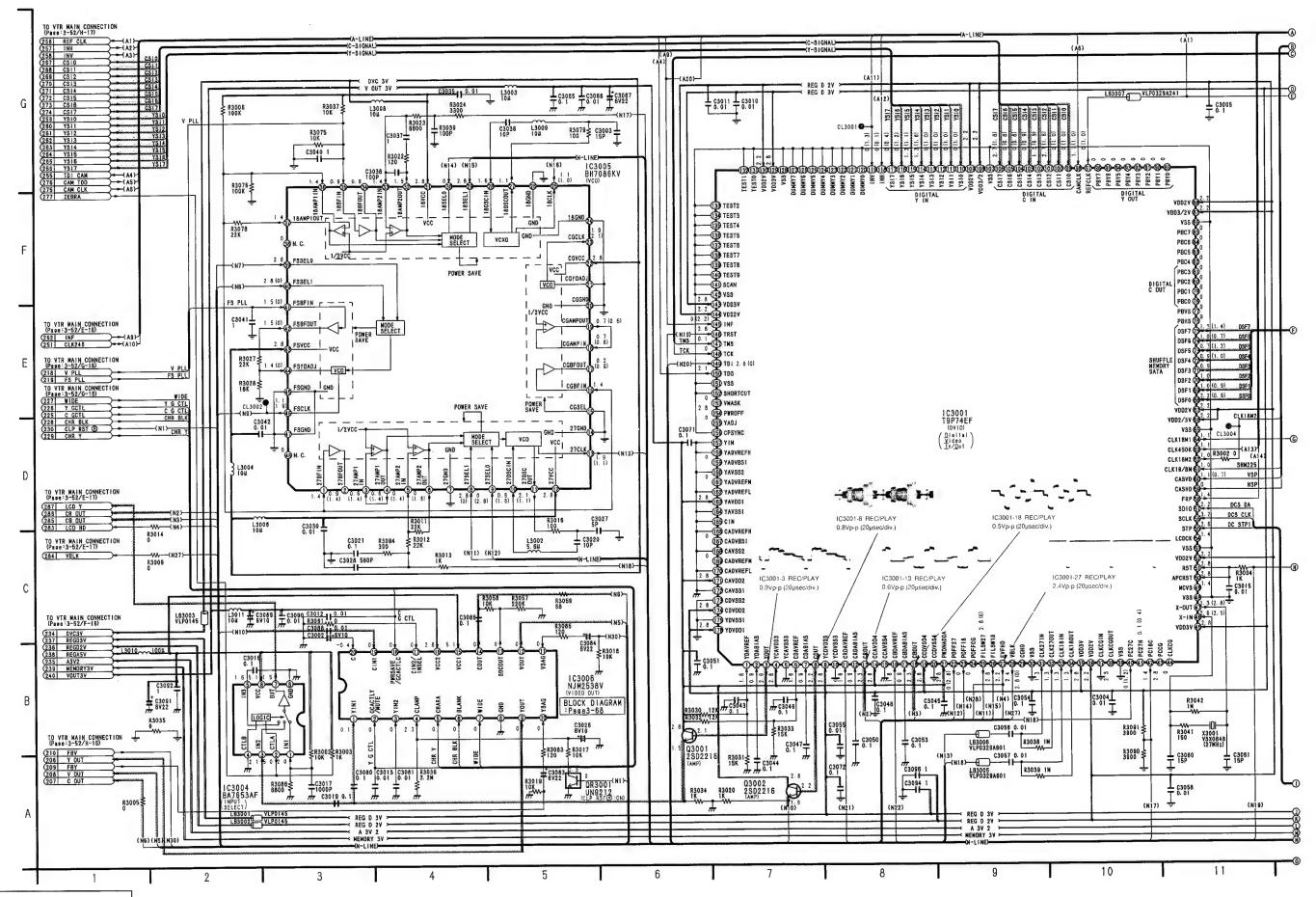
SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

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REF. NO.					IC2	012								IC2	013				
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5					1
STOP	2.4	-0	0	0	1.7	2.7	2.3	3.3		0	0	0	3.2	5.1					
PLAY	2.4	0	0	0	1.7	2.7	2.3	3.3		0	0	0	3.2	5.1					
REC	2.4	0	0	0	1.7	2.7	2.3	3.3		0	0	0	3.2	5.1					
F.F	2.4	0	0	0	1.7	2.7	2.3	3.3		0	0	0	3.2	5.1					
REW	2.4	0	0	0	1.7	2.7	2.3	3.3		0	0	0	3.2	5.1					
REF. NO.					IC2	014								IC2	015				1
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8		T
STOP	0	0	0	0	0	3.3	0	3.3		2.0	0	0	0	0	2.0	2.0	2.8		
PLAY	0	0	0	0	0	3.3	0	3.3		2.0	0	0	0	0	2.0	2.0	2.8	T	
REC	0	0	0	0	0	3.3	0	3.3		2.0	0	0	0	0	2.0	2.0	2.8		
F.F	0	0	0	0	0	3.3	0	3.3		2.0	0	0	0	0	2.0	2.0	2.8		
REW	0	0	0	0	0	3.3	0	3.3		2.0	0	0	0	0	2.0	2.0	2.8		

SYSTEM CONTROL & SERVO TRs DC VOLTAGE CHART (SP MODE)

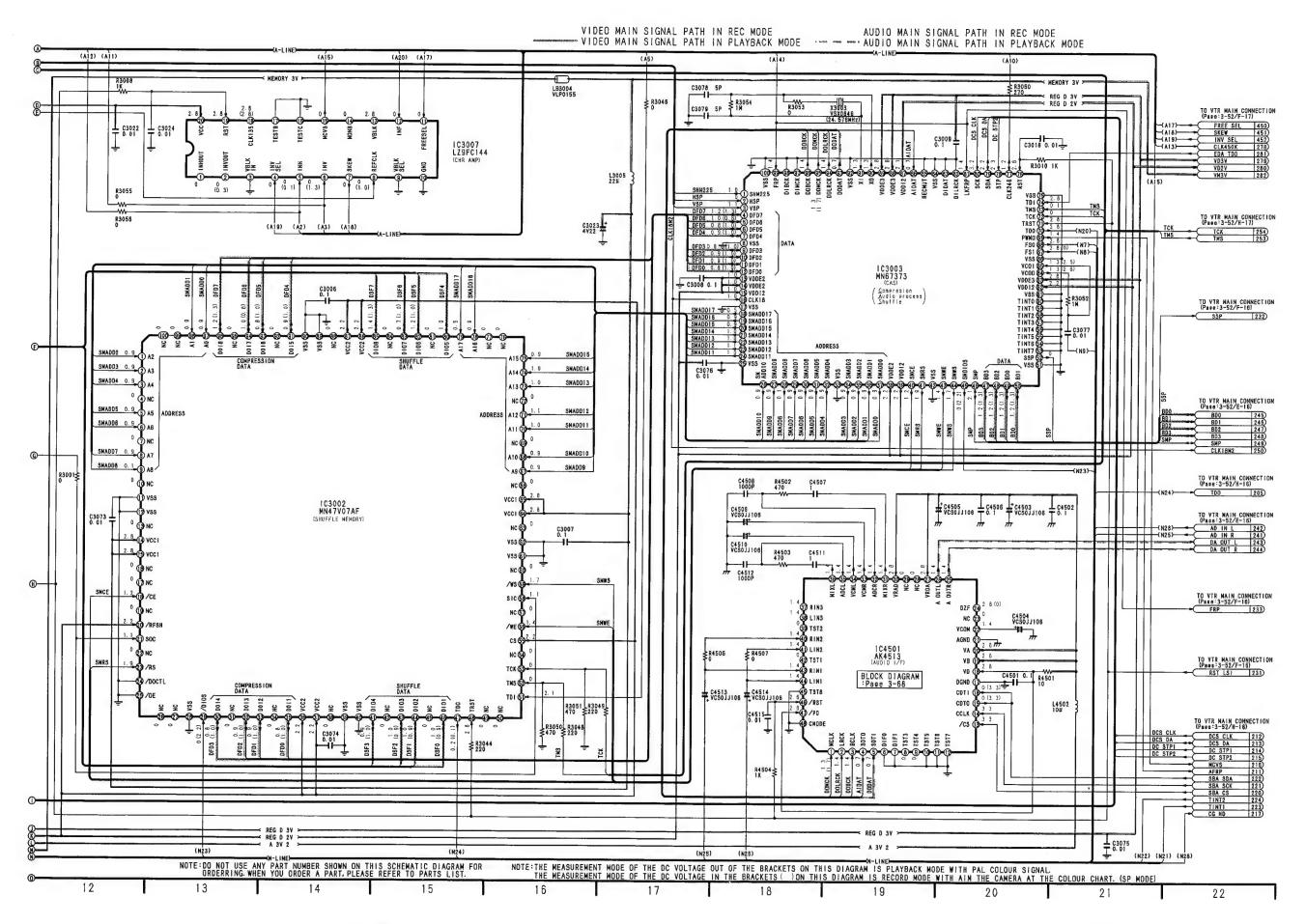
REF. NO.		Q2001			Q2002			Q2003			Q2006				O2	008		
MODE	E	С	В	Е	С	В	E	С	В	Е	C	В	<u> </u>	2	3	4	5	6
STOP	2.8	2.8	3.3	5.1	0	4.7	0.2	7.6	0	0.1	2.8	0.1	1.5	1.5	0.1	4.9	0.1	4.8
PLAY	2.8	2.8	3.3	5.1	0	4.7	0.2	7.6	0	0.1	2.8	0.1	1.5	1.5	0.1	4.8	0.1	4.8
REC	2.8	2.8	3.3	5.1	0	4.7	0.2	7.6	0	0	2.8	0.1	1.5	1.5	0.1	4.8	0.1	4.8
F.F	2.8	2.8	3.3	5.1	0.5	4.7	0.5	7.6	0.5	0.1	2.8	0.1	1.4	1.4	0.1	4.9	0.1	4.8
REW	2.8	2.8	3.3	5.1	0.5	4.7	0.5	7.6	0.5	0.1	2.8	0.1	1.4	1.4	0.1	4.8	0.1	4.8
REF. NO.		QR2001				QR2	2002		0.0				2003				QR2004	_
MODE	Ε	С	В	1	2	3	4	5	6	1	2	3	4	5	6	Е	С	В
STOP	3.6	3.6	0	0	2.8	0	0	0	0	0	2.8	0	0	0	0	2.8	0	3.3
PLAY	3.6	3.6	0	0	2.8	0	0	0	0	0	2.8	0	0	0	0	2.8	0	3.3
REC	3.6	3.6	0	0	2.8	0	0	0	0	0	2.8	0	0	0	0	2.8	0	3.3
F.F	3.6	3.6	0	0	2.8	0	0	0	0	0	2.8	0	0	0	0	2.8	0	3.3
REW	3.6	3.6	0	0	2.8	0	0	0	0	0	2.8	0	0	0	0	2.8	0	3.3
REF. NO.		QR2005	5		QR2006	i		QR2007	•			QR	2008				QR2009	,
MODE	E	С	В	E	С	В	Е	С	В	1	2	3	4	5		Е	С	В
STOP	2.8	0	2.8	2.8	_	2.8	0	_0	0	2.3	0	1.8	0.1	0.1		2.8	0	2.8
PLAY	2.8	0	2.8	2.8		2.8	0	0	0	2.2	0	1.8	0.1	0.1		2.8	2.8	0
REC	2.8	_ 0	2.8	2.8	2.7	0	0	0	0	2.3	0	1.8	0.1	0.1		2.8	0	2.8
F.F	2.8	0	2.8	2.8		2.8	0	0	0	2.2	0	1.8	0.1	0.1		2.8	2.8	0
REW	2.8	0	2.8	2.8	_	2.8	0	0	0	2.2	0	1.8	0.1	0.1		2.8	2.8	0
REF. NO.		QR2010)		QR2011			QR2012			QR2013							
MODE	E	С	В	E	С	В	Е	С	В	E	С	В						
STOP	2.8	2.8	0	0	0	3.3	0	1.5	1.0	0	1.0	1.7						
PLAY	2.8	0	2.8	0	0	3.3	0	1.5	1.0	0	1.0	1.7						
REC	2.8	2.8	0	0	0	3.3	0	1.5	1.0	0	1.0	1.7						
F.F	2.8	0	2.8	0	0	3.3	0	1.4	1.0	0	1.0	1.7						
REW	2.8	0	2.8	0	0	3.3	0	1.4	1.0	0	1.0	1.7						

3-21. VIDEO1 SCHEMATIC DIAGRAM



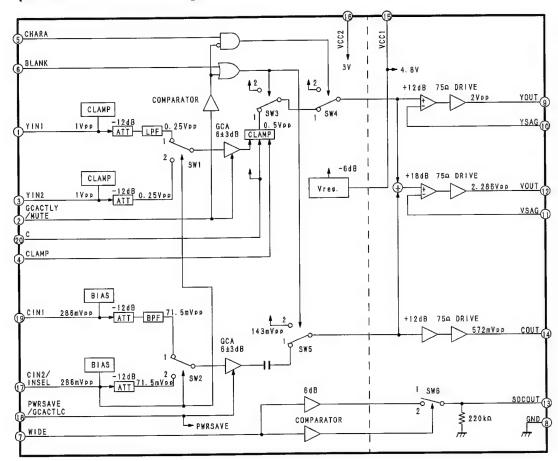
Back Page: SYSTEM CTL & SERVO Section

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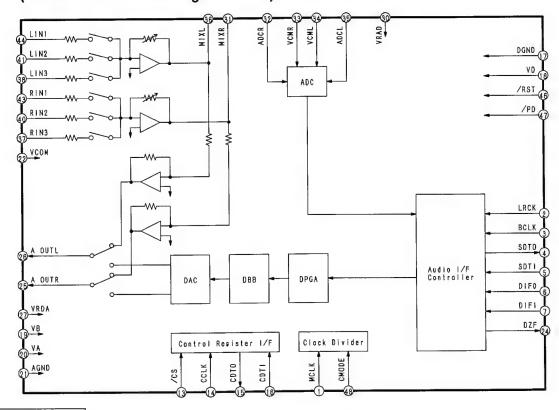


VIDEO1 IC BLOCK IC3006:NJM2538V

(SCHEMATIC DIAGRAM:Page 3-64/B-5)



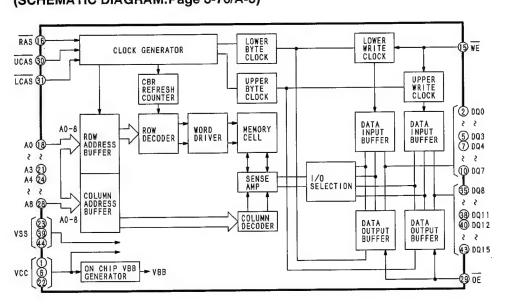
IC4501:AK4513 (SCHEMATIC DIAGRAM:Page 3-67/B-19)



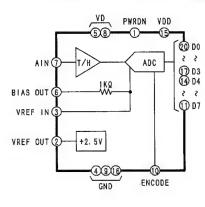
Back Page: VIDEO1 Section

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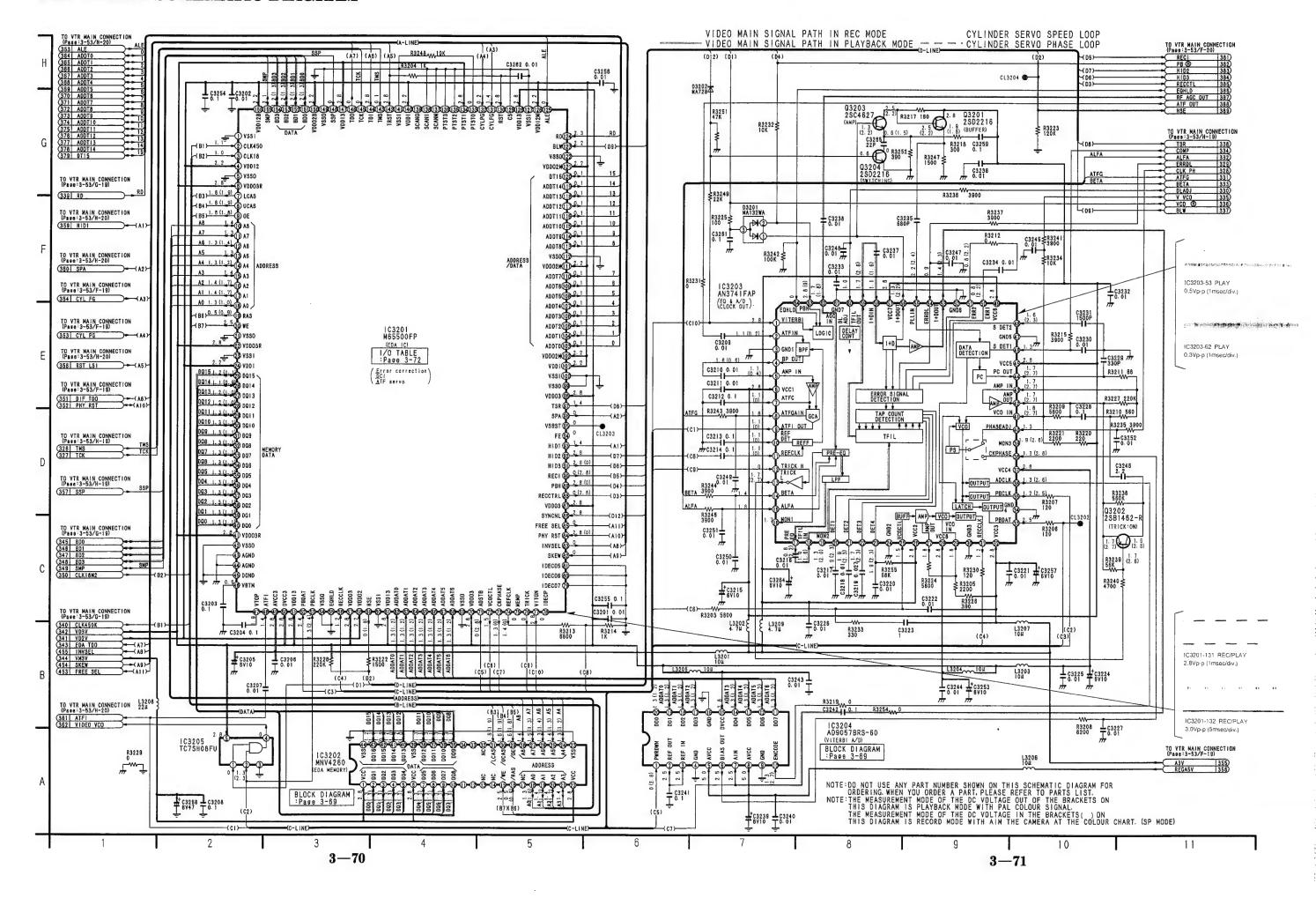
VIDEO2 IC BLOCK IC3202:MNV4260 (SCHEMATIC DIAGRAM:Page 3-70/A-3)



IC3204:AD9057BRS-60 (SCHEMATIC DIAGRAM:Page 3-71/A-8)



3-22. VIDEO2 SCHEMATIC DIAGRAM



VIDEO 2 I/O TABLE

IC3201 (M65500FP): EDA

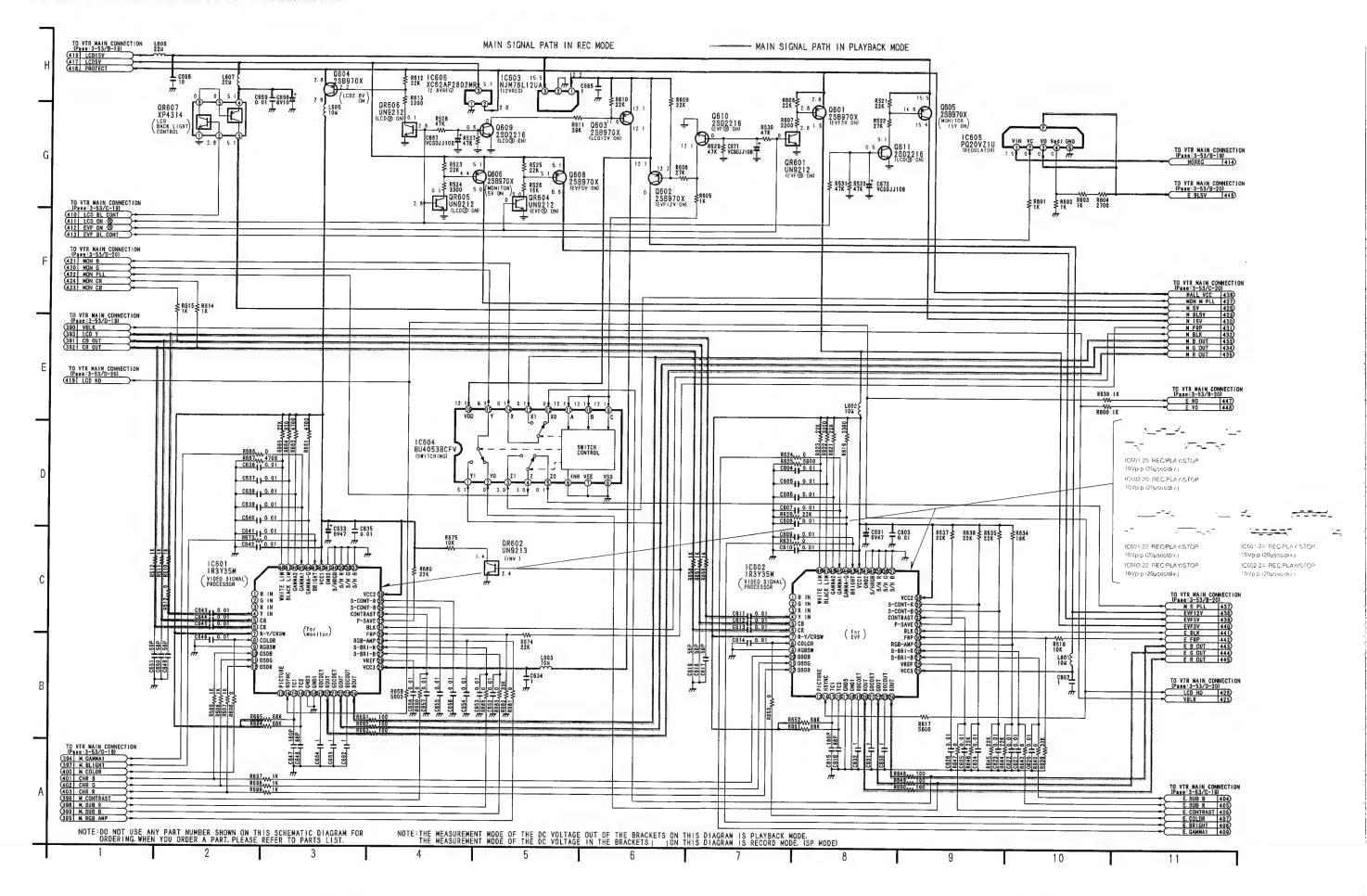
PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	VSSI		VSS for Input Buffer & Inside Logic	57	VDDO3		VDD (3V) for Output Buffer
2	CLK450	l	Clock	58	VDDO2		VDD (2V) for Output Buffer
3	CLK18	1	Clock	59	HSE	0	
4	VDD12	_	VDD (2V) for Input & Inside Logic	60	VSSI	_	VSS for Input Buffer & Inside Logic
5	VSSO	_	VSS (Output Buffer)	61	VDDI3		VDD (3V) for Input Buffer
6	VDD03R	_	VDD (Output Buffer)	62	ADDAT0	- 1	Address Data
7	LCAS	0	2/3V Select Correspond (DRAM I/F)	63	ADDAT1	1	Address Data
8	UCAS	0	2/3V Select Correspond (DRAM I/F)	64	ADDAT2	- 1	Address Data
9	OE	0	2/3V Select Correspond (DRAM I/F)	65	ADDAT3	1	Address Data
10	A8	0	2/3V Select Correspond (DRAM I/F)	66	ADDAT4	1	Address Data
11	A7	0	2/3V Select Correspond (DRAM I/F)	67	ADDAT5	1	Address Data
12	A6	0	2/3V Select Correspond (DRAM I/F)	68	ADDAT6	Ī	Address Data
13	A5	0	2/3V Select Correspond (DRAM I/F)	69	VSSO	_	(N.C.)
14	A4	0	2/3V Select Correspond (DRAM I/F)	70	VDDO3	_	(N.C.)
15	A3	0	2/3V Select Correspond (DRAM I/F)	71	ADSTB	0	AD STB
16	A2	0	2/3V Select Correspond (DRAM I/F)	72	VCOCTL	0	VCO CTL
17	A1	0	2/3V Select Correspond (DRAM I/F)	73	CKPHASE	0	PHASE Clock
18	A0	0	2/3V Select Correspond (DRAM I/F)	74	REFCLK	0	Reference Clock
19	RAS	0	2/3V Select Correspond (DRAM I/F)	75	MEMP	<u> </u>	(N.C.)
20	WE	0	2/3V Select Correspond (DRAM I/F)	76	TRICK	0	Tracking Clock
			VSS for Output Buffer	77	VITON	0	VIT ON
21	VSSO		VDD for Output Buffer	78	IDECP		(N.C.)
22	VDDO3R	— [*]	(DRAM I/F: 2/3V Select Correspond)	79	IDEC07		GND
00	V001			80	IDECO6		GND
23	VSSI		VSS for Input Buffer & Inside Logic	81	IDECO5		GND
24	VDDI		VDD (2V) for Input & Inside Logic	82	SKEW	1	SKEW
25	DQ15	1/0	2/3V Select Correspond (DRAM I/F)	83	INVSEL	0	INV SEL
26	DQ14	1/0	2/3V Select Correspond (DRAM I/F)			1/0	PHY RST
27	DQ13	1/0	2/3V Select Correspond (DRAM I/F)	84	RHYRST		
28	DQ12	1/0	2/3V Select Correspond (DRAM I/F)	85	FREESEL	0	FREE SEL
29	DQ11	1/0	2/3V Select Correspond (DRAM I/F)	86	SYNCNL		SYNC NL
30	DQ10	1/0	2/3V Select Correspond (DRAM I/F)	87	VDDO3	_	VDD (3V) for Output Buffer
31	DQ9	1/0	2/3V Select Correspond (DRAM I/F)	88	RECCTRL	0	REC Control
32	DQ8	1/0	2/3V Select Correspond (DRAM I/F)	89	PBH	0	Play Back (H) Signal
33	DQ7	1/0	2/3V Select Correspond (DRAM I/F)	90	RECI	0	RECI
34	DQ6	1/0	2/3V Select Correspond (DRAM I/F)	91	HID3	0	Head Switching Pulse
35	DQ5	1/0	2/3V Select Correspond (DRAM I/F)	92	HID2	0	Head Switching Pulse
36	DQ4	I/O	2/3V Select Correspond (DRAM I/F)	93	HID1	0	Head Switching Pulse
37	DQ3	1/0	2/3V Select Correspond (DRAM I/F)	94	FE		(N.C.)
38	DQ2	1/0	2/3V Select Correspond (DRAM I/F)	95	VSBST	0	VS BST
39	DQ1	1/0	2/3V Select Correspond (DRAM I/F)	96	SPA	0	ATF Sampling Pulse
40	DQ0	1/0	2/3V Select Correspond (DRAM I/F)	97	TSR	0	Head Switching Reference
41	VDDR3R		VDD for Output Buffer	98	VDDO3	_	VDD (3V) for Output Buffer
41	VUUNSK	_	(DRAM I/F: 2/3V Select Correspond)	99	VSSO	_	VSS for Output Buffer
42	VSSO		VSS for Output Buffer	100	VSSI	_	VSS for Input Buffer & Inside Logic
43	AGND	_	Analogue GND	101	VDDI	_	VDD (2V) for Input & Inside Logic
44	AGND	_	Analogue GND	100	VDDO2M		VDD for Output Buffer
45	DGND	_	Digital GND	102	V DDO2101		(MCU I/F: 2/3V Select Correspond)
			Reference Analogue Voltage	103	ADDAT0	1/0	2/3V Select Correspond (MCU I/F)
46	VBTM	_	(ВОТТОМ)	104	ADDAT1	1/0	2/3V Select Correspond (MCU I/F)
47	VTOP	_	Reference Analogue Voltage (TOP)	105	ADDAT2	1/0	2/3V Select Correspond (MCU I/F)
48	ATFI	1	Analogue Input (Vin: 1.0Vp-p)	106	ADDAT3	1/0	2/3V Select Correspond (MCU I/F)
49	AVCC3	 '-	Analogue VCC	107	ADDAT4	1/0	2/3V Select Correspond (MCU I/F)
		+	Digital VCC	108	ADDAT5	1/0	2/3V Select Correspond (MCU I/F)
E0	DVCC3	-		109	ADDAT6	1/0	2/3V Select Correspond (MCU I/F)
50	VDDI3	 -	VDD (3V) for Low Amplitude Buffer Low Amplitude Buffer	+		1/0	2/3V Select Correspond (MCU 1/F)
51			L LOW AMBUTUAN MUTTOR	110	ADDAT7	1/0	1 2/3 A Gelect Collesholla (INICO 1/L)
51 52	PBDAT	!!					VDD for Output Buffer
51 52 53	PBDAT PBCLK	1	Low Amplitude Buffer	111	VDDO2M		VDD for Output Buffer
51 52	PBDAT	1		111	VDDO2M VSSO		VDD for Output Buffer (MCU I/F: 2/3V Select Correspond VSS for Output Buffer

Back Page: VIDEO2 Section

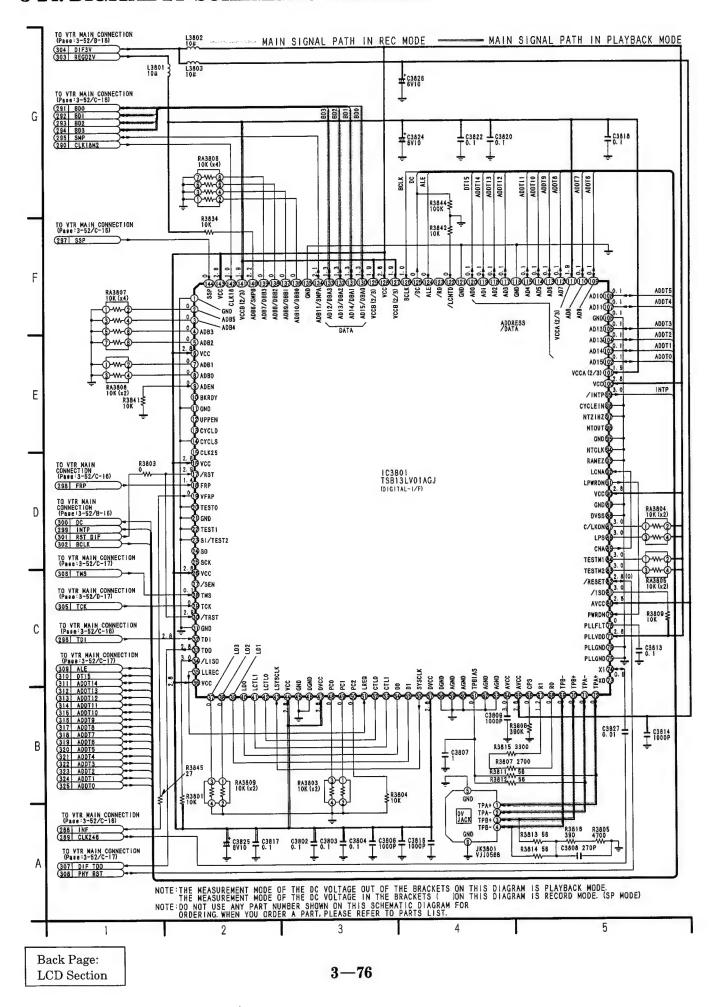
3-72

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
114	ADDT9	1/0	2/3V Select Correspond (MCU I/F)	138	SCANI	_	GND
115	ADDT10	1/0	2/3V Select Correspond (MCU I/F)	139	SCANO	_	(N.C.)
116	ADDT11	1/0	2/3V Select Correspond (MCU I/F)	140	VDDI	_	VDD (2V) for Input & Inside Logic
117	ADDT12	1/0	2/3V Select Correspond (MCU I/F)	141	VSSI	1	VSS for Input Buffer & Inside Logic
118	ADDT13	1/0	2/3V Select Correspond (MCU I/F)	142	TRST	- 1	BSCAN Reset Input
119	ADDT14	1/0	2/3V Select Correspond (MCU I/F)	143	TMS	-	BSCAN Mode Input
120	DT15	1/0	2/3V Select Correspond (MCU I/F)	144	TDI	1	BSCAN Data Input
101	VDDCOM		VDD for Output Buffer	145	TCK	- 1	BSCAN Clock Input
121	VDDO2M	-	(MCU I/F: 2/3V Select Correspond)	146	TDO	0	BSCAN Data Output
122	VSSO	_	VSS for Output Buffer	147	VDDI3		VDD (3V) for Input Buffer
123	BLW	1	2/3V Select Correspond (MCU I/F)	148	SSP	1	SSP
124	RD	1	2/3V Select Correspond (MCU I/F)	149	VSSO	_	VSS for Output Buffer
125	ALE	1	2/3V Select Correspond (MCU I/F)	150	VSDDO2B		VDD for Output Buffer
100	VDDI2M		VDD for Input Buffer] 150	V3DD02B		(DVC BUS: 2/3V Select Correspond)
126	VUUIZIVI		(MCU I/F: 2/3V Select Correspond)	151	BD0	1/0	2/3V Select Correspond
127	VSSI	_	VSS for Input Buffer & Inside Logic	151	650	20	(DVC BUS I/F)
128	VDDI3	_	VDD (3V) for Input Buffer	152	BD1	1/0	2/3V Select Correspond
129	CS	_	GND	152	601	1/0	(DVC BUS I/F)
130	RST	1	Reset	153	BD2	1/0	2/3V Select Correspond
131	CYLFG	I	Cylinder FG	155	DDZ	1/0	(DVC BUS I/F)
132	CYLPG	1	Cylinder PG	154	BD3	1/0	2/3V Select Correspond
133	PTST0	1	IC-Test Control	104	555		(DVC BUS I/F)
134	PTST1	I	IC-Test Control	155	SMP	1/0	2/3V Select Correspond
135	PTST2	_	GND	133	GIVII		(DVC BUS I/F)
136	PTST3		GND	156	VDDI2B		VDD for Input Buffer
137	SCANM	_	GND	130	VUUIZU		(DVC BUS: 2/3V Select Correspond)

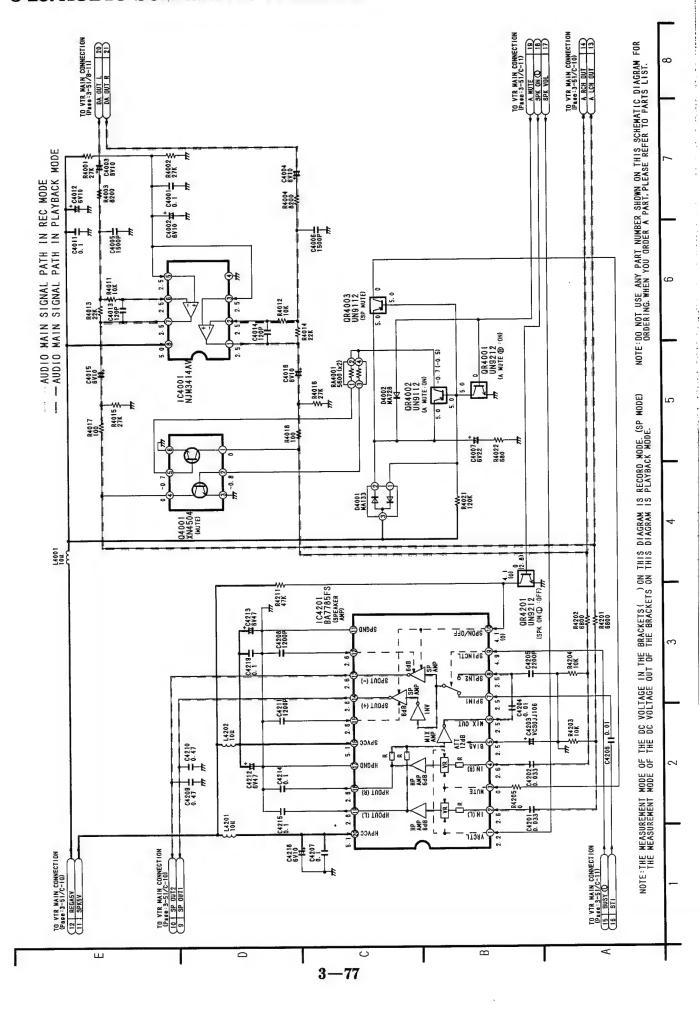
3-23. LCD SCHEMATIC DIAGRAM



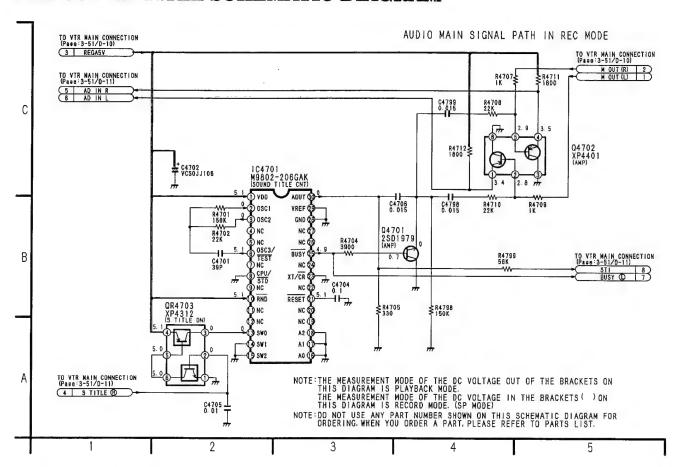
3-24. DIGITAL I/F SCHEMATIC DIAGRAM



3-25. AUDIO SCHEMATIC DIAGRAM

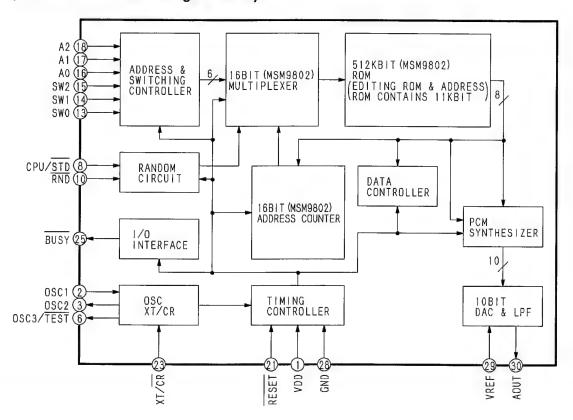


3-26. SOUND TITLE SCHEMATIC DIAGRAM

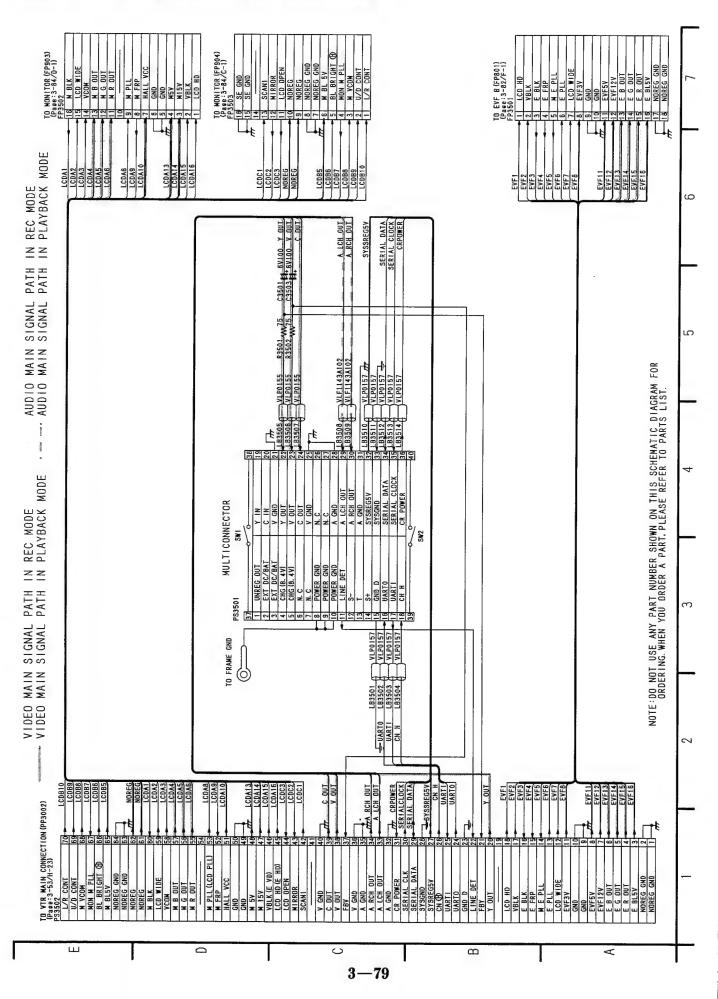


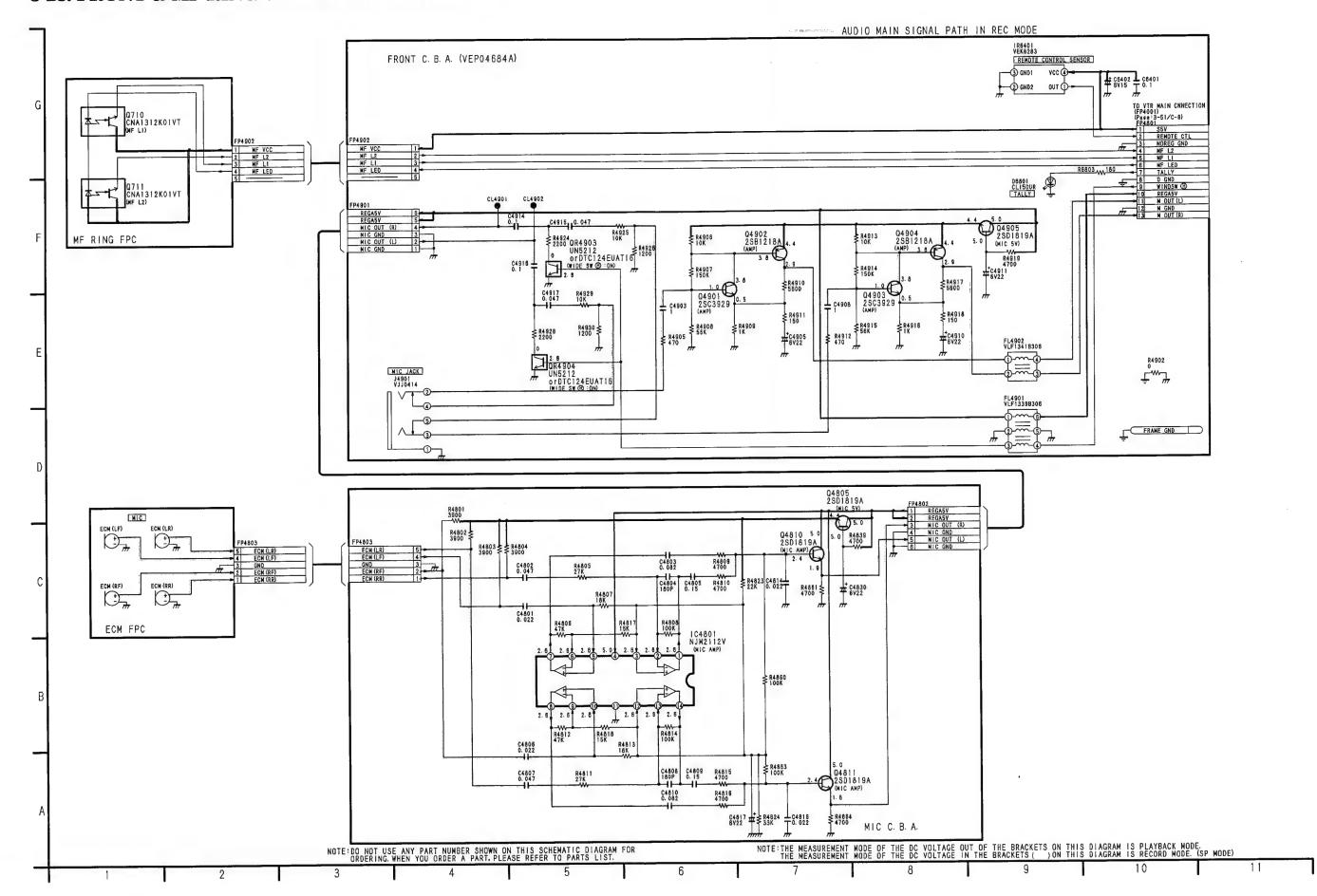
SOUND TITLE IC BLOCK

IC4701:M9802-206GAK (SCHEMATIC DIAGRAM:Page 3-78/B-2)



3-27. LCD I/F SCHEMATIC DIAGRAM

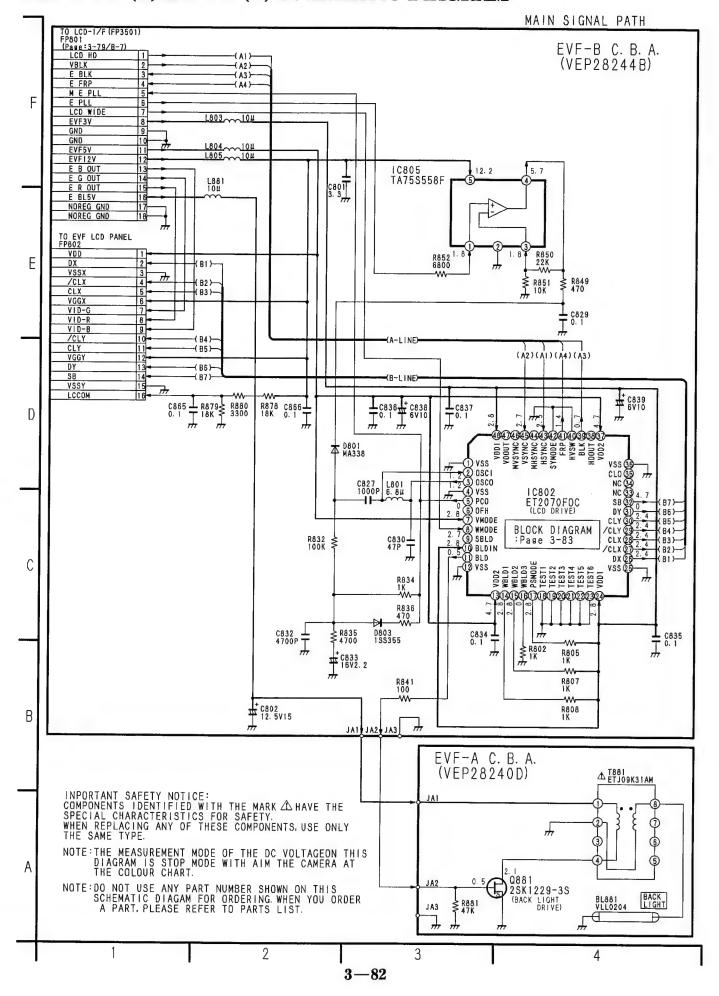




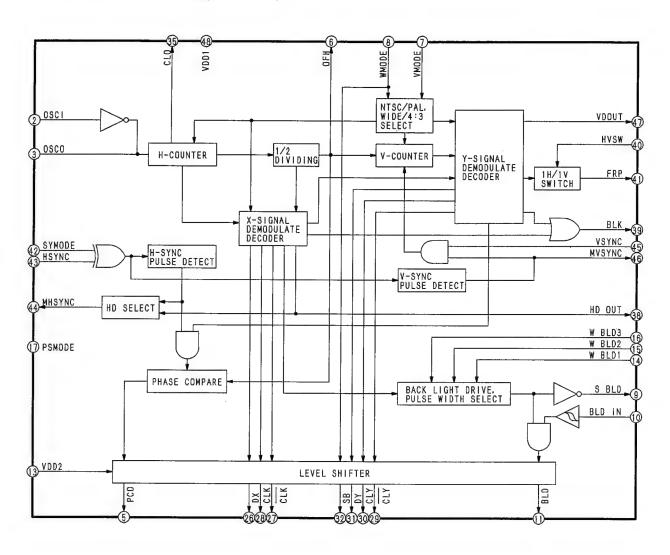
Back Page: SOUND TITLE & LCD I/F Section

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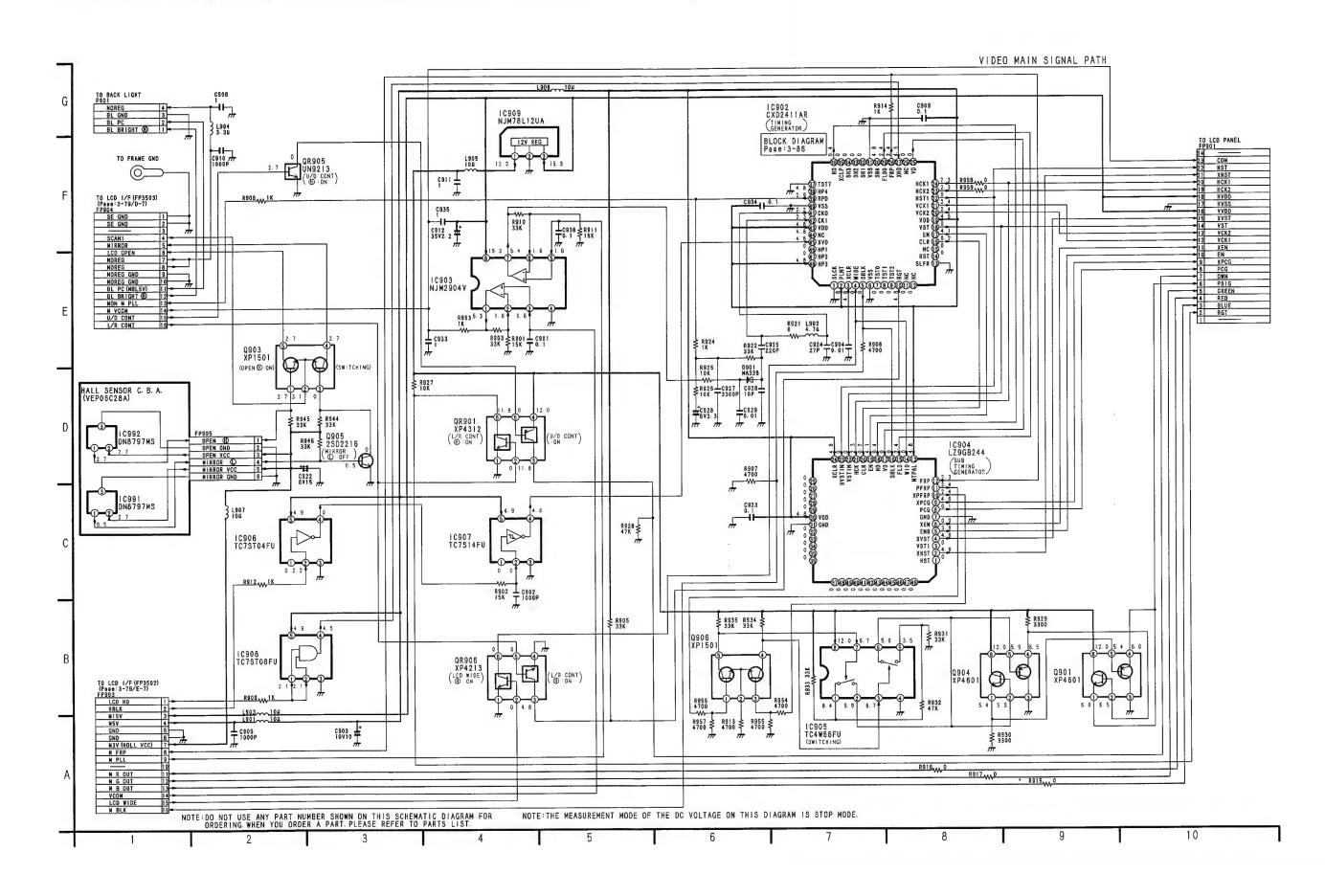
3-29. E.V.F. (A) & E.V.F. (B) SCHEMATIC DIAGRAM



EVF-B IC BLOCK IC802:ET2070FOC (SCHEMATIC DIAGRAM:Page 3-82/D-4)

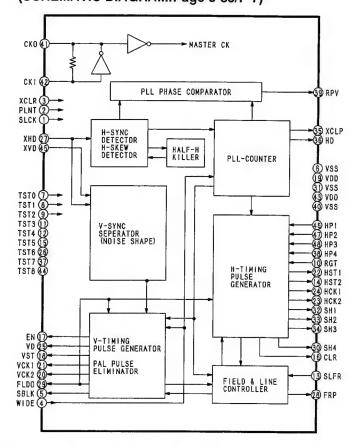


3 - 84

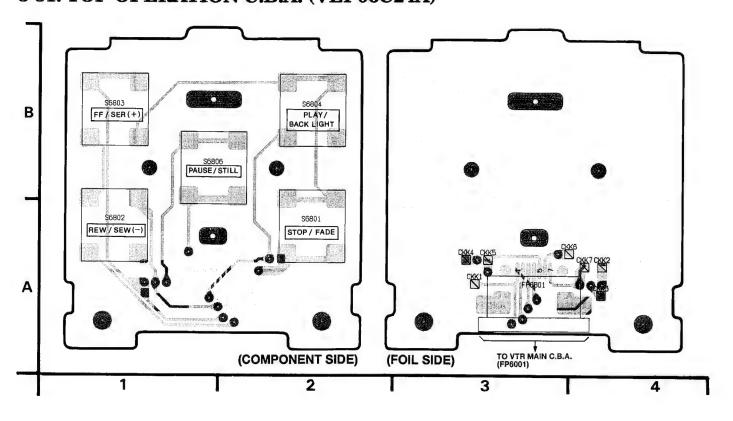


Back Page: E.V.F.(A) & (B) Section

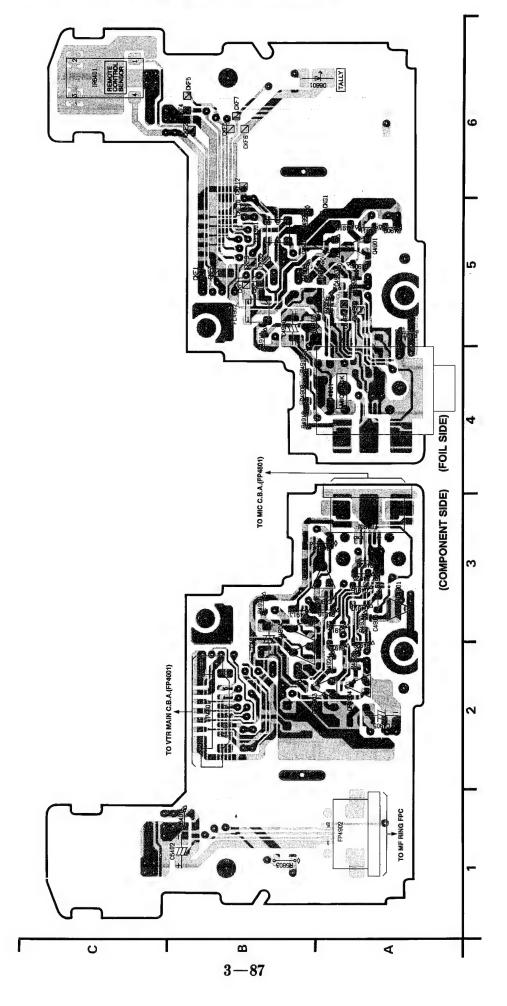
MONITOR IC BLOCK IC902:CXD2411AR (SCHEMATIC DIAGRAM:Page 3-85/F-7)



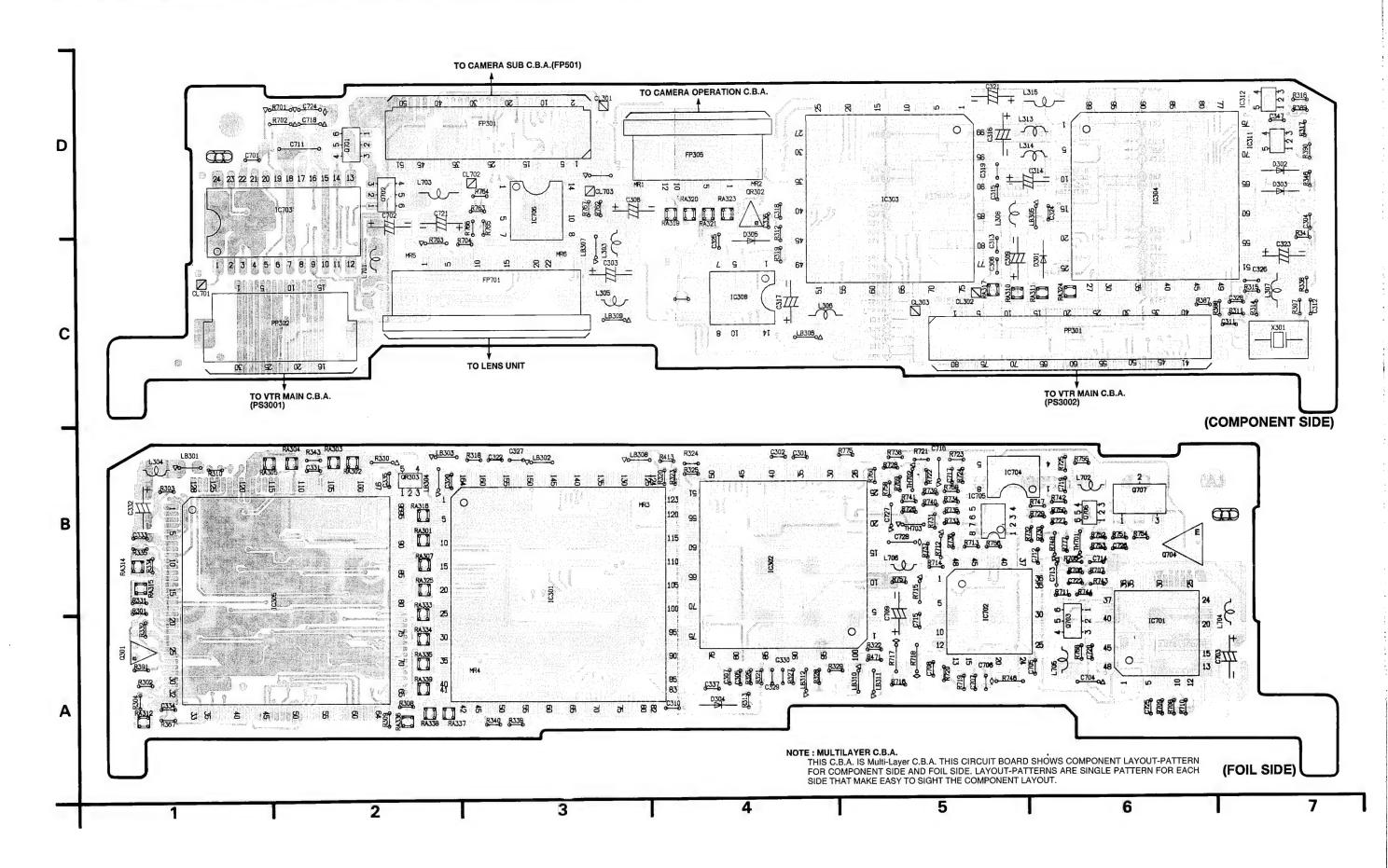
3-31. TOP OPERATION C.B.A. (VEP06C24A)



3-32. FRONT C.B.A. (VEP04684A)



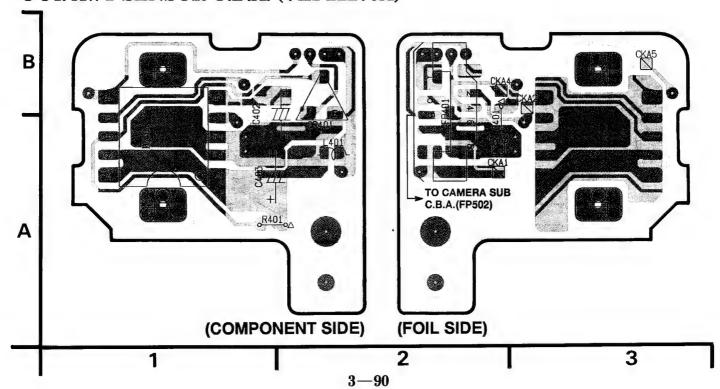
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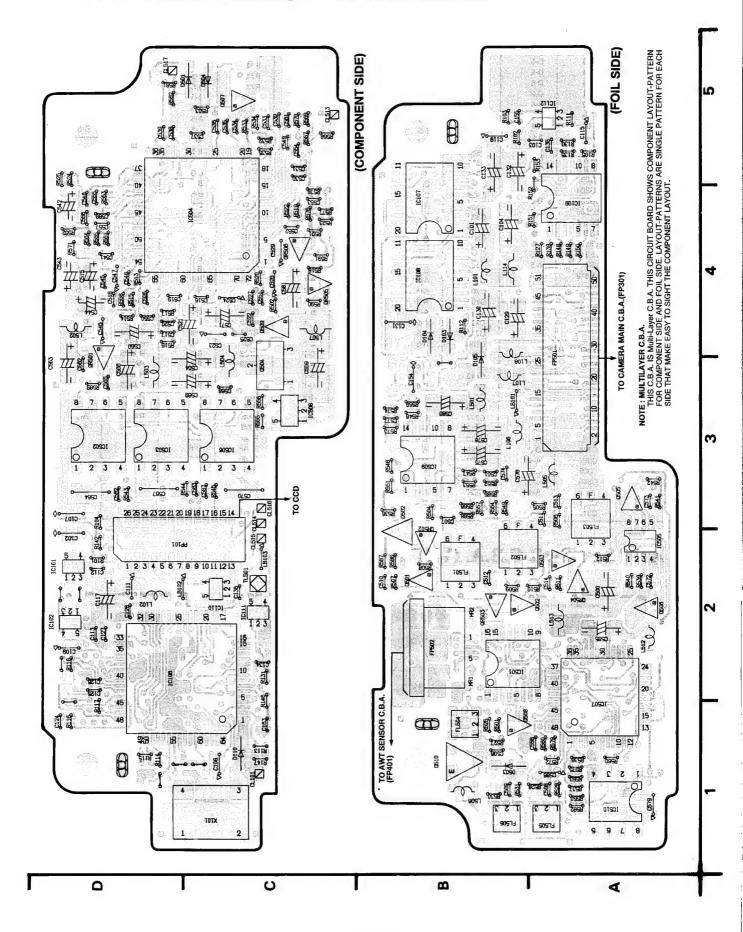
		·			CAMER	A MAIN C.B.A.					
Integrated Ci	rcuit	Coil		C313	C-5	C728	B-5	R703	C-2	R756	B-5
IC301	B-3	L303	C-3	C314	D-6	Resistor		R704	C-3	R757	B-5
IC302	B-4	L304	B-1	C315	D-5			R705	B-6	R758	B-5
IC303	D-5	L305	C-3	C316	D-5	R301	B-1	R706	B-6	R759	B-5
IC304	D-6	L306	C-4	C317	C-4	R302	A-1	R707	B-6	R760	B-5
IC305	B-2	L307	C-7	C318	D-4	R303	B-1	R708	A-6	R762	D-3
1C308	C-4	L308	D-5	C319	D-5	R304	A-1	R709	A-6	R763	D-3
IC311	D-7	L313	D-6	C320	B-2	R307	C-7	R710	A-6	R764	D-3
IC312	D-7	L314	D-6	C321	D-5	R308	A-2	R711	B-6	R765	D-3
IC701	A-6	L315	D-6	C322	B-3	R309	A-2	R712	B-5	R766	D-3
1C702	A-5	L701	C-2	C323	C-7	R310	B-2	R713	B-5	R767	D-3
IC702	D-2	L702	B-6	C324	D-6	R311	C-7	R714	B-5	R768	A-6
1C703	B-5	L702	D-2	C325	C-4	R312	C-4	R715	B-5	R769	B-5
IC704	B-5	L703	A-7	C326	C-7	R313	A-4	R716	A-5	R775	B-5
	D-3	L705	A-7 A-6	C327	B-3	R314	C-7	R717	A-5	R777	B-6
IC706	D-3	L705	B-5	C328	C-7	R315	C-7	R718	A-5	Resistor Arra	n.e
Transistor				C329	A-4	R316	D-7	R719	A-5	Resistor Arra	ay
		LB301	B-1	C330	A-4	R317	D-7	R720	A-5	RA301	B-2
Q301	A-1	LB302	B-3	C331	B-2	R318	B-3	R721	B-5	RA302	B-2
Q701	D-2	LB303	B-2	C332	B-1	R319	C-4	R722	B-5	RA303	B-2
Q702	D-2	LB304	B-2	C333	B-1	R320	B-4	R723	B-5	RA304	B-2
Q703	A-6	LB305	D-6	C334	A-1	R321	A-4	R724	B-5	RA305	B-1
Q704	B-6	LB306	C-4	C335	B-2	R322	A-5	R725	B-6	RA307	B-2
Q706	B-6	LB307	C-3	C336	D-4	R323	B-4	R726	B-5	RA310	C-5
Q707	B-6	LB308	B-3	C337	A-4	R324	B-4	R727	B-6	RA311	C-6
Tunnaistan 0	Decistor	LB309	C-3	C347	D-7	R325	B-4	R728	B-5	RA312 -	A-1
Transistor &	Resistor	LB310	A-5	C701	D-1	R326	A-4	R729	B-6	RA314	B-1
QR302	D-4	LB311	A-5	C702	D-2	R327	A-4	R730	B-6	RA315	B-1
QR303	B-2	LB312	A-4	C703	A-7	R328	A-4	R731	B-5	RA316	B-2
Took Dalah	L	Thermal Res	loter	C704	A-6	R329	A-4	R732	B-6	RA317	C-5
Test Point		mermai nes	istor	C705	A-6	R330	A-2	R733	B-5	RA319	D-4
CL301	D-3	TH701	B-6	C706	A-5	R331	B-1	R734	B-5	RA320	D-4
CL302	C-5	TH702	B-5	C707	A-5	R332	A-1	R735	B-5	RA321	D-4
CL303	C-5	TH703	B-5	C708	A-5	R334	B-1	R736	B-5	RA323	D-4
CL701	C-1			C709	A-5	R335	B-1	R737	B-5	RA324	C-6
CL702	D-3	Crystal Osci	liator	C711	D-2	R338	C-7	R738	B-5	RA325	B-2
CL703	D-3	X301	C-7	C712	B-6	R339	A-3	R739	B-5	RA333	B-2
	1	-	I	C713	B-6	R340	A-3	R740	B-5	RA334	A-2
Diode		Capacitor		G714	B-6	R341	C-7	R741	B-5	RA335	A-2
D301	C-6	C301	B-4	C715	A-5	R343	B-2	R742	B-6	RA336	A-2
D302	D-7	C302	B-4	C716	B-5	R346	D-7	R743	B-6	RA337	A-2
D303	D-7	C303	C-3	C717	B-5	R367	A-1	B744	B-6	RA338	A-2
D304	A-4	C304	D-7	C718	D-2	R387	C-6	R746	A-5	RA339	A-2
D305	C-4	C305	A-4	C719	B-6	R388	C-7	R747	B-6		
	L	C306	D-3	C720	A-6	R389	D-7	R748	B-6		
Connector		C307	A-4	C721	D-2	R390	D-7	R750	B-6		
FP301	D-3	C308	C-5	C722	B-6	R391	A-1	R751	B-6		
FP305	D-4	C309	C-5	C724	D-2	R413	B-4	R752	B-6		1
FP701	C-3	C310	A-4	C725	A-6	R471	A-5	R753	B-6		1
PP301	C-6	C311	C-7	C726	B-6	R701	D-2	R754	B-6		
PP302	C-2	C312	C-7	C727	B-5	B702	D-2	R755	B-6		
11002		0012	1 0,	0,2,	50	1 11702	1	11100			

ADDRESS INFORMATION

3-34. AWT SENSOR C.B.A. (VEP22270A)



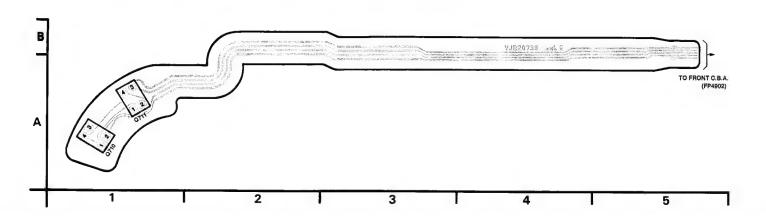
3-35. CAMERA SUB [Sensor, Analog Pre Process, AWT Sensor Section] C.B.A. (VEP22278A)



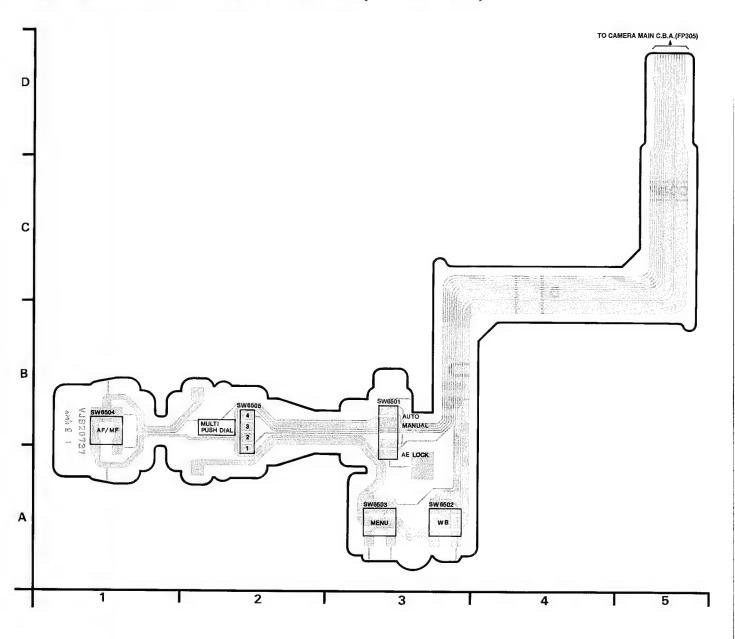
					CAMERA	SUB C.B.A.					
Integrated C	ircuit	D502	B-3	C127	D-2	C547	D-4	R131	C-2	R545	C-3
IC101	D-2	D503	B-1	C128	D-2	C548	D-4	R135	A-5	R546	B-3
IC101	D-2	D504	C-5	C129	B-4	C549	C-5	R138	A-5	R547	B-3
		Files		C130	B-4	C550	D-4	R139	A-4	R548	B-3
IC106	D-2	Filter		C131	B-4	C551	C-4	R142	D-2	R549	B-3
IC107	B-4	FL501	B-2	C132	B-5	C552	C-4	R146	C-1	R550	A-1
IC108	B-4	FL502	B-2	C133	B-5	C553	C-4	R147	C-1	R551	B-3
IC109	A-4	FL503	A-3	C134	C-2	C554	C-5	R148	A-4	R552	B-3
IC110	C-2	FL504	B-1	C135	A-5	C555	D-4	R149	A-4	R553	B-3
IC111	C-2	FL505	A-1	C136	C-2	C556	D-4	R150	A-4	R554	B-3
IC112	A-5	FL506	B-1	C154	B-3	C557	D-4	R151	A-4	R555	C-3
IC501	B-2	FL306	D-1		B-5	C558	A-1		1		C-3
IC502	D-3	Connector		C155				R152	A-4	R556	
IC503	D-3			C163	C-1	C559	C-3	R153	A-5	R557	B-3
IC504	C-4	FP501	A-3	C500	A-2	C560	D-4	R501	B-1 ⁻	R558	D-4
IC505	A-2	FP502	B-2	C501	B-3	C561	C-5	R502	C-4	R559	B-3
IC506	C-3	PP101	D-2	C504	C-3	C562	D-3	R503	C-5	R560	A-1
IC507	A-1	Coil		C506	B-1	C563	D-3	R504	B-3	R561	D-4
IC507	C-3	3011		C507	B-3	C564	D-3	R505	A-3	R562	D-4
IC508	B-3	L101	B-4	C508	A-1	C565	D-3	R506	A-3	R563	D-4
	1	L102	D-2	C509	B-1	C566	D-3	R507	B-2	R564	D-4
IC510	A-1	L106	B-3	C510	B-2	C567	D-3	R508	B-2	R565	D-4
Transistor		L107	B-3	C511	A-3	C568	C-3	R509	B-2	R566	B-3
Transistor		L108	B-3	C512	B-2	C569	C-3	R510	A-2	R567	C-5
Q501	B-2	L114	B-4	C513	A-3	C570	C-3	R511	A-2	R568	C-5
Q502	A-2	L501	B-3	C514	A-2	C571	C-4	R512	A-2	R569	C-5
Q503	A-2	L502	D-4	C514	D-4	C572	A-2	R512	D-4	R570	
Q504	C-3										C-5
Q505	A-3	L503	D-3	C516	C-4	C573	A-3	R514	D-4	R571	D-4
Q506	A-2	L504	C-3	C517	D-4	C574	B-3	R515	D-4	R572	A-1
Q507	C-5	L505	A-3	C518	D-4	C575	B-3	R516	D-4	R573	B-3
Q508	B-1	L506	B-1	C519	D-4	C576	B-3	R517	D-4	R574	B-3
Q509	C-4	L507	C-4	C520	D-4	C577	B-3	R518	C-4	R575	A-1
Q510	B-1	L512	A-2	C521	D-4	C578	B-3	R519	C-4	R576	C-4
Q310	D-1	L513	A-2	C522	C-4	C579	A-1	R520	C-4	R577	C-4
Transistor &	Resistor	LB101	B-3	C523	C-4	C580	B-3	R521	C-4	R578	C-4
		LB102	D-2	C524	C-4	C581	C-4	R522	C-4	R579	A-1
QR501	D-3	LB103	C-2	C525	C-4	C582	D-3	R523	C-4	R580	A-1
QR502	B-2	On sale On all	1	C526	D-4	C583	C-3	R524	D-5	R581	D-5
QR503	B-2	Crystal Oscil	lator	C527	C-4	C585	A-2	R525	D-5	R582	D-5
QR504	A-2	X101	C-1	C528	C-4	C586	A-1	R526	B-1	R585	B-3
QR505	C-4		L	C529	C-4	C587	C-3	R527	B-1	R586	B-2
QR506	C-4	Capacitor		C530	C-5	C589	D-4	R528	A-1	R587	B-2
	1	C101	B-4	C531	C-5			R529	A-1	R588	B-3
Test Point		C102	D-2	C532	C-5	Resistor		R530	B-1	R589	D-3
CL101	C-1	C103	A-5	C533	C-5	R101	D-2	R531	B-1	R590	C-4
CL513	C-5	C104	B-4	C534	C-5	R102	B-5	R532	C-5	R591	C-4
CL514	C-3	C107	D-3	C535	C-5	R103	B-5	R533	C-5	R592	A-1
CL515	C-2	C108	C-1	C536	C-5	R104	D-3	R534	C-5		A-1
CL516	C-3									R593	A-1
CL517	D-5	C109	D-2	C537	C-5	R105	A-5	R535	C-5		
TL501	C-2	C111	D-2	C538	D-5	R111	A-5	R536	B-3		
I LOUT	L 0-2	C112	D-2	C539	D-5	R112	B-4	R537	A-1		
Diode	-	C113	D-2	C540	D-4	R113	C-1	R538	A-1		
		C115	A-5	C541	D-4	R114	D-1	R539	A-2		
D103	B-4	C117	D-2	C542	D-4	R115	D-1	R540	A-2		
D104	B-4	C119	B-5	C543	D-4	R116	D-1	R541	A-3		
D105	B-3	C124	D-1	C544	D-4	R117	D-1	R542	A-3		
D110	C-1	C125	D-2	C545	D-4	R118	D-2	R543	D-3		
D501	C-5	C126	D-2	C546	D-4	R127	A-4	R544	C-3	I	1

ADDRESS INFORMATION

3-36. MF RING C.B.A. (VXP1846)

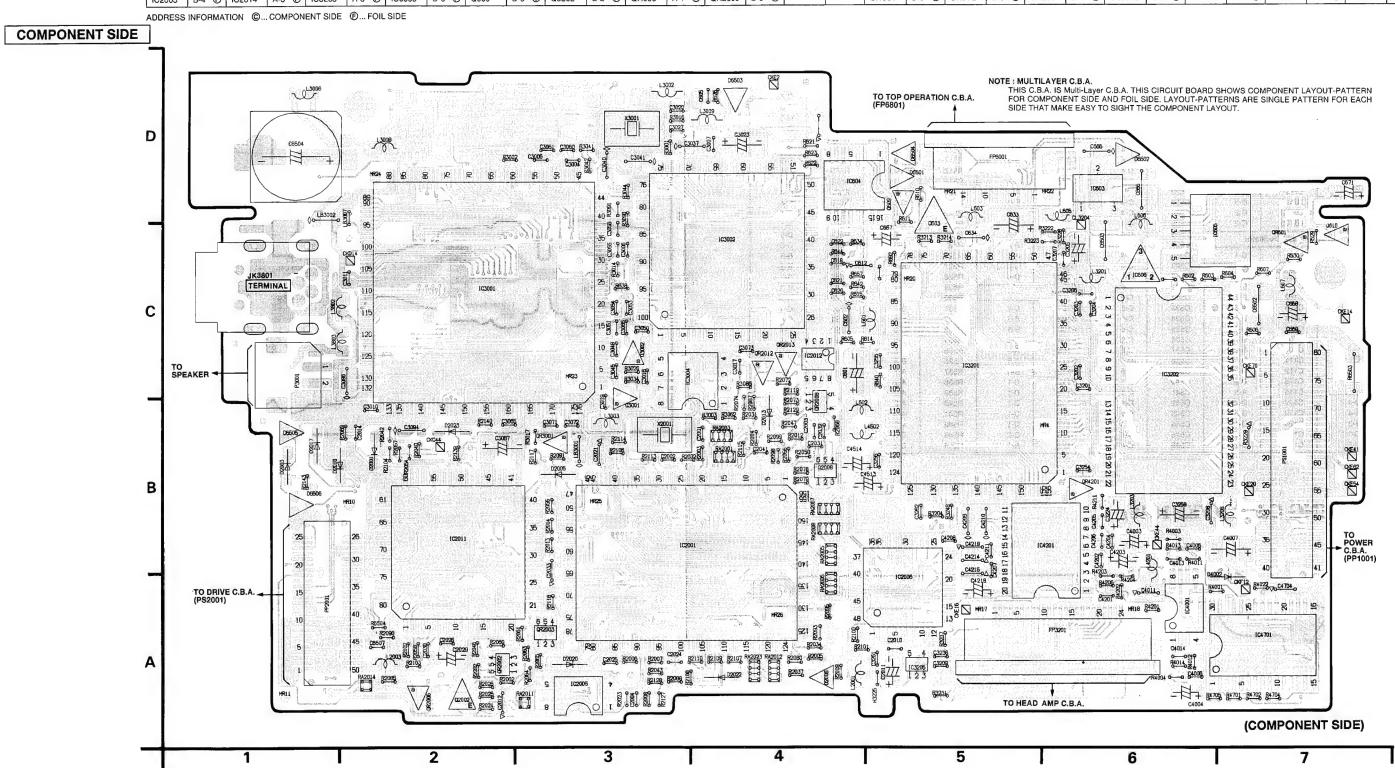


3-37. CAMERA OPERATION C.B.A. (VEP20737A)



3-38. VTR MAIN [VTR Main Connection , System Control & Servo , Video1 , Video2 , LCD , Digital I/F , Audio , Sound Title Section] C.B.A. (VEP03E52A)

																VTR MAIN	C.B.A. (1)														
Integrate	d Circuit	IC2004	B-4	(F) 10	C2015	D-7 (Ē)	IC3204	C-3 (D IC6506	D-6 (F)	Q610	C-7 ©	Q3203	A-3 (Ē)					Test Poin		CKD3	C-5 (E) CKI	D78 D	-5 (F) CKE62	B-7 ©	CL3004	C-4 (F)	D2006	A-4 ©	D2021	A-5 🕞
		LOCOLO	A-3	© 10	C3001	C-2 ©	IC3205				Q611	C-1 (F)		A-4 🕑	QR607	C-1 (F)	QR2011	B-7 🖲	CKC43 CKC44	B-5 (Ē)	CKD6	C-5 (F) CK	.D79 D	-5 (F) CKE64		CL3202			A-4 (Ē)		A-4 ©
IC601	D-3 (D IC2006	A-5	© 10	C3002	C-4 ©	IC3801	C-6 (Firansiste)i	Q2001	B-5 (Ē)	Q4001	A-2 (Ē)	QR2001	B-7 (F)	QR2012	C-4 ©	CKC43	B-2 ©	CKD7	D-5 (F) CKI	D80 D	-5 (F) CKE66	D-1 (F)	CL3203	C-4 (F)	D2010	B-1 ©		B-2 ©
IC602 IC603	D-3 (E) 100007	A-5	(F) 10	C3003	C-4 (E)	IC4001	A-6 @	Q601	C-2 (E)	Q2002	A-2 ©	Q4701	A-1 (Ē)						A-6 (F)	CKD11	C-5 (F) CKE		-4 © CKE70		CL3204	C-4 ©	D2011	A-5 (F)		B-5 🕞
IC603	D-6 @	IC2008	B-5	(F) 10	C3004	C-3 ©	IC4201	B-6 @	Q602	C-2 (F)	Q2003	A-4 (F)	Q4702	A-1 (F)	QR2003	A-3 ©	QR3001	B-3 ©			CKD12	C-6 (F) CKE	E14 0	-7 © CKF11	A-1 (F)	Diode		D2012	B-5 (F)		B-6 (F)
IC604	D-4 @	D 1C2009	B-7	(F) 10	C3005	D-5 🖲	IC4501	B-3 (D Q603	C-5 ©	Q2006	B-4 🖲	Transistor	9 Decister	QR2004	A-4 🖲	QR4001	B-2 (F)	CKC46	A-5 (E)	CKD13	C-6 (F) CKE	E16 A	-5 © CKF12	A-/ (C)	·		D2013	B-4 ©		A-3 📵
IC605	C-7 (D 1C2010	A-6	(F) 1	C3006	C-2 (F)	IC4701	A-1 @	Q604	C-2 (F)	Q2008	B-4 ©			QR2005	A-4 (F)	QR4002	B-2 (F)	CKC47	C-7 (P)		C-2 © CKE	E20 B	-7 © CKF13			B-2 ©		A-3 (Ē)		A-4 (F)
1C606	C-6 (D IC2011	B-2	© 1	C3007	D-6 (F)	IC6501	A-6 (D Q605	C-1 (F)	Q3001	B-3 ©	QR601	C-7 ©	QR2006	A-1 ©	QR4003	B-2 🕏		C-5 (F)		D-6 ® CKE	Œ41 B	-7 © CKG1	A-7 📵	D2002	B-6 (Ē)	D2016	A-4 🖲	D4001	B-1 (F)
IC2001	B-3 (D IC2012	C-4	(C)	C3201	C-5 ©	IC6502	A-6 (D Q606	B-1 (F)	Q3002	C-3 ©	QR602	C-3 (F)	QR2007	A-5 🖲	QR4201	B-6 ©	CKC49	C-7 (F)	CKD70	D-6 (F) CKE	E44 B	-6 © CKG5	A-5 (F)			D2017	B-1 ©	1	A-7 ©
IC2002	B-5 (D IC2013	B-6	(F) 10	C3202	C-6 ©	IC6503	A-6 (D Q608	B-1 (F)	Q3201	A-3 🖲	QR604	A-1 (Ē)	QR2008	B-4 ©	QR4703	A-2 (F)	CKC50	A-5 🖲		D-6 (F) CKE			D-6 (F)			D2018	A-4 (E)		D-5 ©
IC2003	B-4 (D IC2014	A-5	(F)	C3203	A-3 🖲	IC6505	D-6 (D Q609	D-5 ©	Q3202	B-2 🖲	QR605		QR2009				CKC51	B-6 (F)	CKD72	D-6 (E) CKE	E58 B	-1 (F) CL3002	C-5 ®	D2005	B-3 ©	D2020	A-3 ©	D6502	D-6 ©

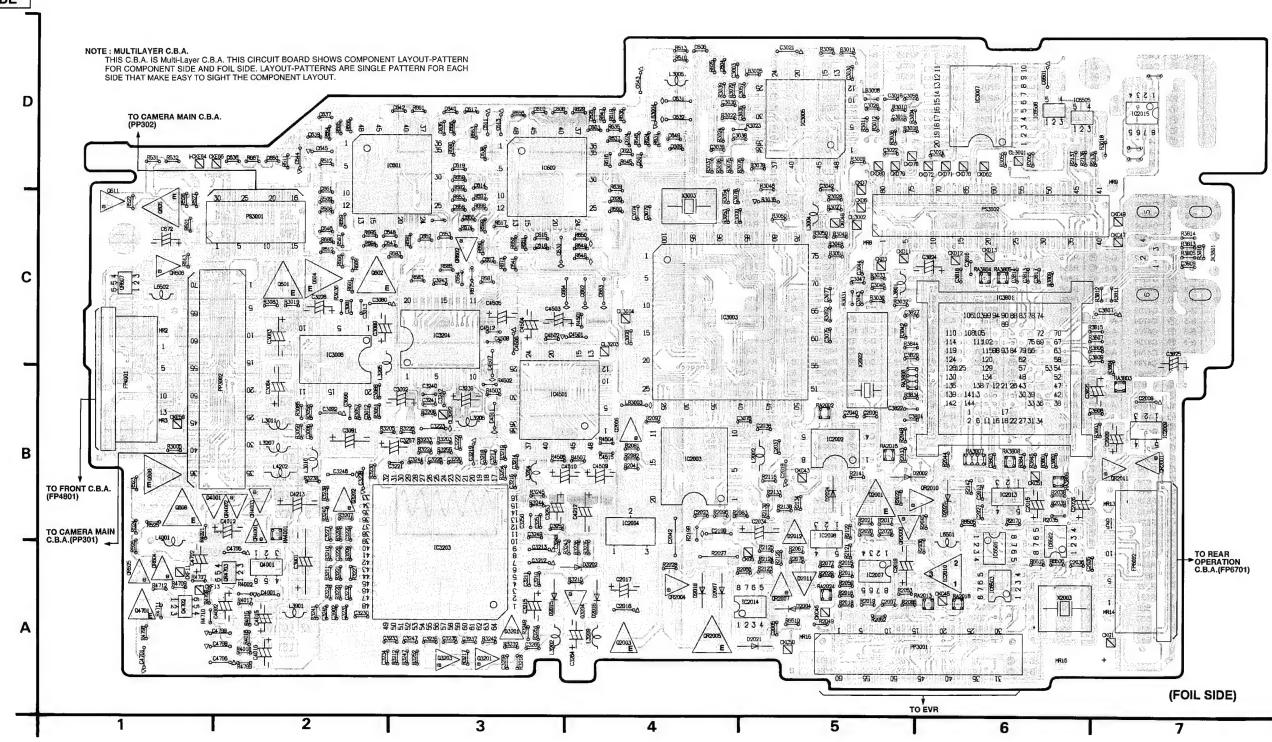


Back Page: MF RING & CAMERA OPERATION C.B.A. Section

				V*	TR MAIN C.B.A. (2)				
06503 D-4 © 06504 D-5 © 06505 B-1 © 06506 B-1 © 06506 B-1 © 0700000000000000000000000000000000000	PR3002 B-2 (b) L(c) PR3001 B-7 (c) L(c) PR3001 C-2 (b) L(c) PR3002 C-6 (b) L(c) PR3002 C-6 (c) DR3002 C-6 (c) D	D-6 © L3008 D D-6 © L3009 D C-7 © L3010 B D001 A-4 © L3011 B D002 B-5 © L3201 C D03 A-2 © L3202 A D02 D-3 © L3203 B D03 B-3 © L3204 B	D-1 © L3207 B-2 © L6501 D-2 © L3208 B-7 © L6502 D-4 © L3209 A-4 © L83001 B-2 © L3801 C-5 © L83002 C-6 © L3803 C-1 © L83003 C-6 © L3803 C-1 © L83003 B-3 © L4901 B-1 © L83006 B-3 © L4201 B-6 © L83007 B-2 © L4202 B-2 © B-3 © L4502 B-5 ©	B-6	D-4 (F) C614 D-3 (F) C625 D-4 (F) C615 C-3 (F) C626 D-4 (F) C616 C-3 (F) C630 D-4 (F) C617 D-3 (F) C631 D-4 (F) C618 C-4 (C) C632 D-3 (F) C619 D-3 (F) C633 D-4 (F) C620 C-4 (C) C634 D-3 (F) C621 C-4 (C) C635 D-3 (F) C622 C-4 (C) C636 C-4 (C) C623 D-4 (F) C637 D-3 (F) C624 D-4 (F) C638	D-4 (P) C639 D-2 (P) C650 C-4 (P) C640 D-3 (P) C651 C-3 (P) C641 C-3 (P) C652 D-4 (P) C642 D-3 (P) C653 D-4 (P) C643 D-4 (P) C654 D-5 (Q) C644 D-2 (P) C655 C-5 (Q) C645 D-2 (P) C656 D-3 (P) C646 C-2 (P) C657 D-2 (P) C647 C-3 (P) C668 D-2 (P) C648 C-3 (P) C662 D-3 (P) C649 D-4 (P) C663	D-2 (P) C6664 C-4 (P) C20 C-2 (P) C665 D-6 (©) C20 C-3 (P) C666 D-6 (©) C20 C-3 (P) C667 C-5 (©) C20 C-3 (P) C668 C-7 (©) C20 C-3 (P) C669 C-7 (©) C20 D-3 (P) C671 D-7 (©) C20 C-3 (P) C672 C-1 (P) C20 C-4 (P) C2003 B-4 (©) C20 C-4 (P) C2003 B-4 (©) C20 C-4 (P) C2003 B-4 (©) C20	2005	B-6 (A-2 (A-2 (A-2 (A-2 (A-2 (A-2 (A-2 (A-2

ADDRESS INFORMATION @... COMPONENT SIDE ... FOIL SIDE

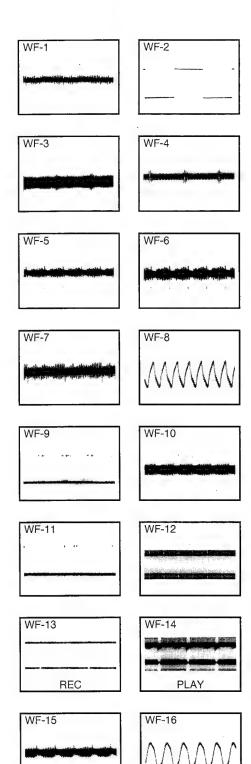
FOIL SIDE



							VTR MAI	N C.B.A. (3)							
C2038	B-5 🕞	C3203	C-6 ©	C4001	A-2 🖲	R603	C-6 ©	R2014	B-3 ©	R2103	A-2 ©	R3056	D-6 🖲	R3842	C-5 (E
C2040	B-5 🕞	C3204	C-6 ©	C4002	A-2 🖲	R604	C-7 ©	R2015	A-5 Œ	R2104	B-2 ©	R3057	B-2 🖲	R3844	C-5 (E
C2041	B-4 ©	C3205	C-6 ©	C4003	B-6 ©	R605	C-4 ©	R2016	A-5 €	R2106	B-3 ©	R3058	B-2 (E)	R3845	B-6 €
C2042	B-4 🖲	C3206	C-6 ©	C4004	A-6 ©	R606	C-7 ©	R2017	B-5 €	R2107	A-4 ©	R3059	B-2 (F)	R4001	A-7 ©
C2199	B-4 🕞	C3207	C-6 ©	C4005	B-6 ©	R607	C-7 ©	R2018	A-5 €	R2108	A-3 ©	R3060	C-5 🖲	R4002	A-2 €
C3002	B-3 🖲	C3208	B-6 ©	C4006	A-6 ©	R608	C-2 (E)	R2019	A-5 €	R2109	A-4 ©	R3061	B-2 (F)	R4003	B-6 ©
C3003	D-4 🕑	C3209	A-5 ©	C4007	B-7 ©	R609	C-2 (F)	R2020	B-5 Œ	R2110	A-4 ©	R3062	B-4 ©	R4004	A-6 ©
C3004	D-3 ©	C3210	A-3 (F)	C4011	A-6 ©	R610	D-5 ©	R2021	B-5 €	R2113	B-3 ©	R3075	D-4 🖲	R4011	B-6 ©
C3005	D-3 ©	C3211	A-3 (F)	C4012	B-2 (F)	R611	D-5 ©	R2022	B-5 €	R2114	B-3 ©	R3076	D-5 🕞	R4012	A-6 ©
C3006	C-3 ©	C3212	A-3 (F)	C4013	B-6 ©	R612	C-2 (E)	R2023	A-3 ©	R2115	B-4 ©	R3078	D-5 🖲	R4013	B-6 ©
C3007	D-4 ©	C3213	A-3 🕞	C4014	A-6 ©	R613	C-1 (E)	R2024	A-2 ©	R2116	B-5 🖲	R3079	D-4 (F)	R4014	A-6 ©
C3008	C-4 (F)	C3214	B-3 (F)	C4015	A-2 🕞	R614	C-5 ©	R2025	A-2 ©	R2117	B-3 ©	R3083	C-2 (F)	R4015	A-2 €
C3009	C-4 (E)	C3215	A-3 (F)	C4016	A-2 📵	R615	C-4 ©	R2026	A-2 ©	R2118	A-3 ©	R3085	B-2 (F)	R4016	A-2 Œ
C3010	B-2 ©	C3216	B-3 (F)	C4201	A-6 ©	R616	D-4 🖲	R2027	A-4 Œ	R2119	C-4 ©	R3086	C-4 ©	R4017	A-2 Œ
C3011	C-2 ©	C3217	B-3 (F)	C4202	B-6 ©	R617	C-3 (E)	R2028	A-4 Œ	R2121	A-5 🖲	R3090	D-3 ©	R4018	A-2 Œ
C3012	B-2 (Ē)	C3218	B-3 (F)	C4203	B-6 ©	R619	D-4 (E)	R2029	A-5 €	R2122	B-5 (F)	R3091	D-3 ©	R4021	B-1 (E
C3013	C-2 (F)	C3219	B-3 (F)	C4204	B-6 ©	R621	D-4 ©	R2031	B-4 ©	R2123	A-5 🖲	R3094	D-5 🖲	R4022	A-7 ©
C3015	D-5 (F)	C3220	B-3 🕏	C4205	B-6 ©	R622	D-4 €	R2033	B-5 Œ	R2124	A-5 🖲	R3203	B-3 🖲	R4201	A-6 ©
C3016	C-3 ©	C3221	B-3 🕞	C4206	B-6 ©	R623	D-4 ©	R2034	A-4 ©	R2125	A-5 🖲	R3204	B-5 ©	R4202	A-6 ©
C3017	C-4 ©	C3222	B-3 (Ē)	C4207	B-5 ©	R624	D-4 €	R2035	B-6 (E		A-5 🕞	R3205	B-2 🕞	R4203	A-6 ©
C3018	D-5 🗩	C3223	B-3 (F)	C4208	B-5 ©	R625	D-4 Œ	R2036	A-6 Œ	R2127	A-3 ©	R3206	B-3 (E)	R4204	A-6 ©
C3019	B-3 ©	C3224	B-6 ©	C4209	B-5 ©	R626	D-4 ©	R2037	A-4 @	R2128	A-3 ©	R3207	B-2 (F)	R4205	A-6 ©
C3020	D-3 ©	C3225	B-2 (F)	C4210	B-5 ©	R629	D-4 Œ	R2038	B-6 Œ		B-4 ©	R3208	B-2 🖲	R4211	B-6 ©
C3020	D-5 (E)	C3226	B-3 (F)	C4211	B-5 ©	R631	D-4 €	R2039	B-6 €		B-5 🖲	R3209	A-2 🕞	R4501	C-4 €
C3021	D-5 (F)	C3227	B-2 (Ē)	C4212	B-4 (F)	R634	C-4 ©	R2040	B-2 @		B-5 🕞	R3210	A-2 🕞	R4502	B-3 €
C3022	D-4 ©	C3228	B-2 (F)	C4213	B-2 (Ē)	R635	D-4 €	R2041	B-4 (E		B-5 🕞	R3211	A-2 🖲	R4503	B-3 €
C3023	D-6 (F)	C3229	A-2 (F)	C4214	B-5 ©	R636	D-4 €	R2042	B-2 ©		D-7 (Ē)	R3212	A-3 🖲	R4504	B-4 €
C3024	C-2 (F)	C3230	A-2 (Ē)	C4215	B-5 ©	R637	D-4 Œ	R2043	A-3 @		D-6 🕞	R3213	C-5 ©	R4506	B-3 Œ
C3027	D-3 ©	C3231	A-2 (F)	C4218	A-5 ©	R638	C-3 ©	R2044	B-6 (E		D-6 🖲	R3214	C-5 ©	R4507	B-4 (E
C3028	D-5 (F)	C3232	A-2 (F)	C4219	B-5 ©	R639	D-4 E	R2045	B-6 (E		B-5 🖹	R3215	A-4 🖲	R4701	A-7 @
C3030	D-5 (F)	C3233	A-3 (Ē)	C4501	C-4 (E)	R640	C-5 ©	R2046	A-2 @	R2139	B-2 ©	R3217	A-3 (Ē)	R4702	A-7 @
C3035	D-5 ®	C3234	A-2 (Ē)	C4502	C-3 (F)	R642	C-4 ©	R2047	B-4 @		B-2 ©	R3218	A-3 (F)	R4704	A-7 @
C3036	D-4 ®	C3235	A-3 (Ē)	C4503	C-3 (F)	R644	C-4 ©	R2048	B-5 (E		B-5 🕞	R3219	B-3 🕞	R4705	A-7 ©
C3037	D-4 ©	C3236	A-3 (F)	C4504	C-3 🖲	R645	D-4 Œ		A-5 (E		B-6 🕞	R3220	A-2 🕞	R4707	A-1 (E
C3038	D-5 (F)	C3237	A-3 (F)	C4505	C-3 (F)	R646	D-4 Œ	R2050	B-4 @		B-1 ©	R3221	A-2 (F)	R4708	A-1 Œ
C3039	D-4 (F)	C3238	A-5 ©	C4506	C-3 (F)	R647	D-4 Œ	R2052	A-5 (B-4 (E)	R3222	C-6 ©	R4709	A-1 Œ
C3040	D-3 ©	C3239	B-3 (F)	C4507	C-3 (F)	R648	C-4 €		A-5 (D-3 ©	R3223	C-5 ©	R4710	A-1 (E
C3041	D-3 ©	C3240	B-3 (F)	C4508	C-3 (F)	R649	C-4 Œ		B-2 (D-2 ©	R3224	B-3 (F)	R4711	A-1 (E
C3042	D-5 (F)	C3241	B-3 (F)	C4509	B-4 (Ē)	R650	C-4 Œ		B-3 @	R3003	B-4 ©	R3225	A-5 ©	R4712	A-1 (E
C3043	C-5 (F)	C3242	B-3 (Ē)	C4510	B-4 🖲	R651	C-3 €	R2056	B-4 @	R3004	D-5 🖲	R3226	B-3 (F)	R4798	A-1 (E
C3044	C-5 (F)	C3243	C-3 (F)	C4511	B-3 🗩	R652	C-3 €	R2057	B-2 @	R3005	B-1 (F)	R3227	A-2 🕞	R4799	A-2 (
C3045	C-3 ©	C3244	B-3 (F)	C4512	C-3 (F)	R653	C-3 Œ	R2058	A-2 @	R3006	D-4 🖲	R3228	C-6 ©	R6503	C-7 @
C3046	C-5 (F)	C3245	A-2 (F)	C4513	B-5 ©	R656	D-3 €	R2059	A-5 (R3008	D-5 🖲	R3229	B-7 ©	R6504	A-2 @
C3047	C-5 (F)	C3246	B-2 (F)	C4514	B-4 ©	R657	C-4 ©	R2060	A-2 @	R3009	D-5 🖲	R3230	B-2 🕞	R6505	B-6 (
C3048	C-3 ©	C3247	A-3 (F)	C4515	B-4 (F)	R658	D-3 Œ	R2061	A-3 @	R3010	D-5 🕑	R3231	A-5 ©	R6506	A-6 (
C3050	C-3 ©	C3248	A-3 🕏	C4701	A-1 (F)	R659	C-2 €	R2062	A-2 @	R3011	D-5 🕞	R3232	A-3 🕑	R6510	A-5 (
C3051	C-3 ©	C3249	B-3 (F)	C4702	A-1 (Ē)	R661	D-3 Œ	R2063	A-3 @	R3012	D-5 (F)	R3233	B-3 (F)	R6515	A-6
C3053	C-3 ©	C3250	B-5 (F)	C4704	A-7 ©	R663	D-3 €	R2064	A-3 @	R3013	D-5 🖲	R3234	A-2 🕞	Resistor	Array
C3054	C-3 ©	C3251	B-3 (F)	C4705	A-2 🕞	R664	D-2 Œ	R2065	A-3 @	R3014	C-3 ©	R3235	A-4 (F)	nesistor	Allay
C3055	C-3 ©	C3252	B-3 (F)	C4706	A-2 🖹	R665	D-2 Œ	R2066	A-5 (R3016	D-3 ©	R3236	A-4 (F)	RA2001	B-4 @
C3056	D-5 (F)	C3253	B-3 (F)	C4798	A-2 (E)	R666	D-2 (E	R2067	A-5 (R3017	B-3 ©	R3237	A-5 ©	RA2002	B-5 (
C3057	D-5 (F)	C3254	B-6 ©	C4799	A-2 ®	R667	D-2 €	R2068	B-4 @	R3018	D-7 (F)	R3238	B-2 🕞	RA2003	B-4 @
C3058	D-3 ©	C3255	C-5 ©	C6501	D-6 (F)	R673	C-3 Œ	1	B-2 @	R3019	C-2 (Ē)	R3239	B-2 🖲	RA2005	B-4 @
C3060	D-3 ©	C3256	B-5 ©	C6502	C-7 ©	R674	C-3 (E		B-6 (C-3 ©	R3240	B-2 🖲	RA2006	A-4 @
C3061	D-3 ©	C3257	B-3 (F)	C6503	C-6 ©	R675	C-3 (E		C-4 @		D-4 🖲	R3241	A-2 🖲	RA2007	B-4 @
C3065	B-2 ©	C3258	B-6 ©	C6504	A-1 ©	R680	D-3 (E		B-4 (D-5 🕞	R3242	A-3 🗈	RA2008	B-4 (
C3066	C-3 ©	C3259	A-3 (F)	C6507	A-2 ©	R681	C-3 (E		B-4 (D-4 🖲	R3243	A-4 (E)	RA2011	A-3 (
C3067	B-2 ©	C3261	A-5 ©		<u>_</u>	R682	D-3 (E		A-5 (C-5 (F)	R3244	B-3 (F)	RA2012	A-4
C3071	B-3 ©	C3262	B-5 ©	Resistor		R683	C-3 (E		A-5 (R3028	C-5 🖲	R3245	B-3 (E)	RA2013	A-6
03072	B-3 ©	C3264	A-4 (F)	R507	C-2 (F)	R685	C-3 (E		B-4 (C-5 (F)	R3247	A-3 🖲	RA2014	A-2
03072	C-4 ©	C3265	A-3 (Ē)	R508	C-2 (F)	R690	C-3 (B-4 (C-5 🖲	R3248	B-5 ©	RA2016	B-5 (
C3074	C-4 ®	C3802	B-6 (F)	R509	C-2 (F)	R691	C-3 (A-4		C-5 (F)	R3249	A-3 🗈	RA2018	A-6
C3075	C-5 (F)	C3803	B-6 (F)	R510	D-4 (F)	R692	C-5 @		B-4 (C-5 (F)	R3251	A-3 🖲	RA2023	A-4
C3076	B-5 (F)	C3804	B-5 (F)	R511	D-2 🕞	R693	C-3 (B-4 (C-3 ©	R3252	A-3 (E)	RA2024	A-5
C3077	C-5 (F)	C3806	B-7 (F)	R512	D-2 (Ē)	R694	C-2 (B-5 (C-5 (F)	R3254	B-3 (F)	RA3803	B-7
C3078	C-4 (F)	C3807	C-7 (F)	R513	D-4 (F)	R695	C-2 (A-2 (C-2 (E)	R3255	B-3 🗩	RA3804	C-6 C-6
23079	C-4 (E)	C3808	C-7 (F)	R521	C-1 (F)	R696	C-2 (B-4 (D-4 (F)	R3801	B-6 🖲	RA3805	C-6
C3080	C-2 (F)	C3809	C-7 (E)	R522	C-1 (E)	R697	C-3 (A-5 (D-5 🕞	R3803	B-7 🕞	RA3806	B-5
C3081	C-2 (F)	C3813	C-6 ®	R523	B-1 (F)	R698	C-3 (A-3 (D-4 🖲	R3804	C-7 (E)	RA3807	B-6
C3083	C-2 (F)	C3814	C-6 (F)	R524	B-1 (F)	R699	C-3 (A-2 (D-3 ©	R3805	C-7 🖲	RA3808	B-6
C3084	B-2 (F)	C3816	C-6 (E)	R525	B-1 (Ē)	R2002	B-4 @			R3042	D-3 ©	R3806	C-7 🕞	RA3809	B-6 B-6
C3086	B-2 (F)	C3817	C-6 (F)	R526	A-1 (F)	R2003	B-4 (R3044	D-3 ©	R3807	C-7 (F)	RA4001	B-2
	B-2 (F)	C3817	C-6 (F)	R527	C-1 (F)	R2004	B-4 (R3046	D-5 (E)	R3809	C-6 (F)		
C3088		C3818	C-5 (F)	R528	C-1 (F)	R2004	A-4 (R3048	C-5 (F)	R3811	C-7 (F)		
C3089	C-2 (F)		B-5 (P)	R528	C-7 ©	R2005	A-3 (R3049	C-5 ®		C-7 (E)		
C3090	B-2 (E)	C3822			C-7 ©	R2007	A-3 (R3050	C-5 (F)	R3813	C-7 (F)	1	1
C3091	B-2 (F)	C3824	C-6 (F)	R530			A-3 (R3051	C-5 (F)	R3814	C-7 (E)	1	
00000	B-2 (F)	C3825	C-7 (F)	R531 R532	D-1 (F)	R2008	A-4 (R3052	C-5 (F)		C-7 (E)	1	
	DA G				16-1 (1-)	R2009	1 14-4	v 11∠U33	1 4 (1 173032	1000	110010	10-10		1
C3092 C3094	B-2 ©	C3826	B-7 (F)								C-4 (E)	D3816	C-7 (E)	1	
	B-2 © C-2 © C-6 ©	C3826 C3827 C3901	C-5 (F)	R600	C-4 (F)	R2011 R2012	A-5 (B-4 (R2100	A-4 (R3053 R3054	C-4 (F)		C-7 (F) B-5 (F)		

ADDRESS INFORMATION @... COMPONENT SIDE ... FOIL SIDE

Back Page: VTR MAIN C.B.A. Section



Checking Point of the CSP IC3801

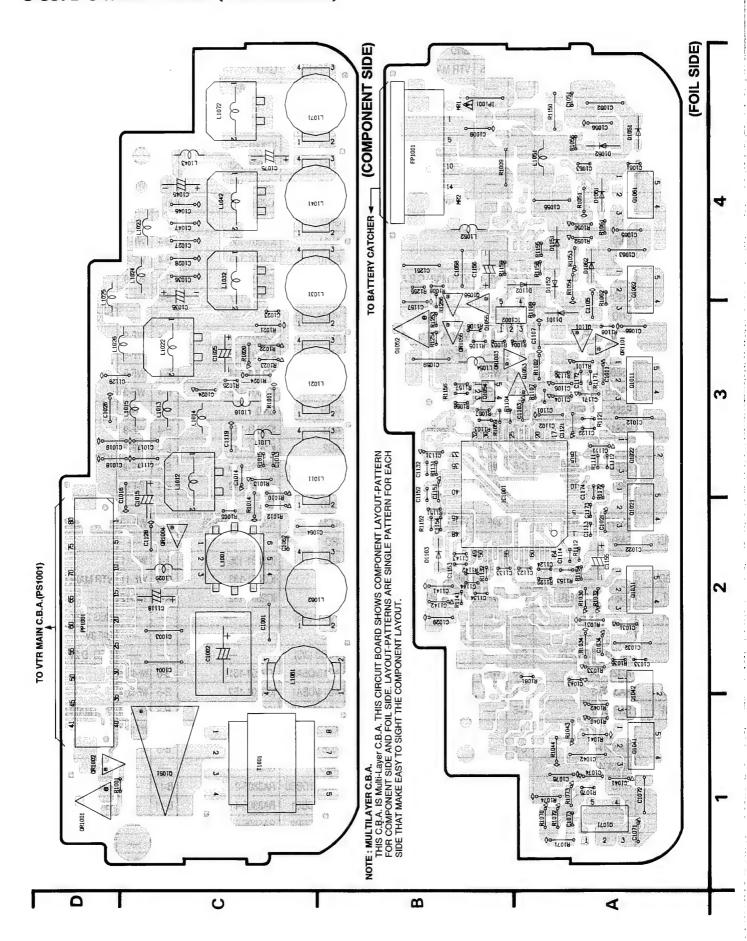
SD CS	NAME	CHECK POIN	JT	WF No.	REMARKS
1	GND	GND			
-	ADB5	RA3807-2	B-11		GND
-	ADB4	RA3807-4	B-11	_	GND
-	ADB3	RA3807-6	B-11		GND
5	ADB2	RA3807-8	B-11		GND
	VCC	11/10007-0			DIF 3V
7	ADB1	RA3808-2	B-11		GND
8	ADB0	RA3808-4	B-11		GND
9	ADEN	R3841 - (UPPER)	B-6		GND
-	BKRDY	10041 - (UFFEN)	D-0	_	GIND
_		GND			
11	GND UPPEN	GIND	+		
12					
13	CYCLD		+		
14	CYCLS	GND	+-		
15	CLK25	-			DIE OV
_	VCC		-		DIF 3V
17	/RST	R3803 - (UPPER)	B-6	WF-1	VTR MAIN C.B.A. (I
	FRP	IC3001-58	D-3	WF-2	VTR MAIN C.B.A. (
19	VFRP	R3845 - (UPPER)	B-6	WF-3	VTR MAIN C.B.A. (I
20	TEST0	GND	+-		
21	GND	GND			
22	TEST1	GND			
	SI/TEST2	GND	-	_	
24	SO		1-		
25	SCK				
26			-		DIF 3V
27	/SEN		<u> </u>		
28		IC3001-147	B-2	WF-4	VTR MAIN C.B.A. (
29	TCK	IC3001-148	B-2	WF-4	
30	/TRST	R3803 - (UPPER)	B-2	WF-1	VTR MAIN C.B.A. (
31	GND	GND			
	TDI	PP3001-51	A-5		VTR MAIN C.B.A. (
33	TDO	IC3201-144	B-5	WF-5	VTR MAIN C.B.A. (
34		R3801 - (UPPER)	B-6	WF-6	VTR MAIN C.B.A. (
35	LLREC	.—			
36	VCC			_	DIF 3V
37	LD3	RA3809-3	B-12		GND
38		RA3809-1	B-12	_	GND
39	LD1				
40	LD0	_	\perp	_	
41	LCTL1	_			
42					
43	LSYSCLK	_	-		
44	VCC	_			DIF 3V
45	GND	GND			
46	D GND	GND			
47	D VCC	_			DIF 3V
40	PC0	RA3803-3	B-12		GND

3 - 99

-	SP IC3801	CHECK POIN	IT	WF	REMARKS
PIN		D40000 4	T	No.	0.110
	PC1	RA3803-1	B-12		GND
-	PC2	R3804 - (LOWER)	B-6	WF-5	VTR MAIN C.B.A. (F)
_	LREQ	_	 -	_	
<u> </u>	CTL0		$\downarrow -$	_	
	CTL1		_		
<u> </u>	D0				
-	D1	_			
56	SYSCLK		-		
57	D VCC			_	DIF 3V
58	D GND	GND	-	_	
59	A GND	GND	<u> — </u>	_	
60	A GND	GND	_	_	
61	TP BIAS	C3807 - (LEFT)	C-6	WF-4	VTR MAIN C.B.A. (F)
62	A GND	GND			
63	A GND	GND	_		
64	A VCC	C3809 - (LEFT)	C-6	WF-4	VTR MAIN C.B.A. (F)
65	A VCC	_	1-		DIF 3V
66	CPS	R3806 - (LEFT)	C-6	WF-7	
67	R1	R3815 - (LEFT)	C-6	WF-4	- 1
68	R0	R3807 - (LEFT)	C-6	WF-4	
69	TPB-	R3814 - (LEFT)	C-7	WF-4	VTR MAIN C.B.A. (F)
70	TPB+	R3813 - (LEFT)	C-7	WF-4	` i
71	TPA-	R3812 - (UPPER)	C-6	WF-4	
72	TPA+	R3811 - (UPPER)	C-6	WF-4	
73	XO		T_		
74	XI	C3827 - (RIGHT)	C-5	WF-8	VTR MAIN C.B.A. (F)
75	PLL GND	GND			
76	PLL GND	GND		_	
77	PLL VDD	_			DIF 3V
78	PLL FLT	C3813 - (LOWER)	C-6	WF-4	VTR MAIN C.B.A. (F)
79	PWRDN	_	1_		` '
80	AVCC	_	1_		DIF 3V
-	/ISO	R3809 - (LOWER)	C-6	_	
-		IC3201-84	C-5	WF-4	VTR MAIN C.B.A. (C)
-	TESTM2	RA3805-3	C-6		(5)
	TESTM1	RA3805-1	C-6	_	
-		_			
-	LPS	RA3804-3	C-6	_	
87	C/LKON	RA3804-1	C-6	_	
-	DVSS	GND			
	GND	GND			
\vdash	VCC	_			DIF 3V
\vdash	LPWRDN		1_		
\leftarrow	LCNA	_	† <u> </u>	_	
-	RAMEZ	GND	-		
-	NTCLK	GND	_		
	GND	GND	+		
-	NTOUT				
30	141001		$\perp -$		

PIN	SP IC3801 NAME	CHECK POIN	Т	WF No.	REMARKS
	NTZIHZ	GND	Γ		
	CYCLEIN		\vdash		
_	/INTP	GND		NA/E A	VED MAIN O D.A. (O)
		IC2001-88	A-3	WF-4	VTR MAIN C.B.A. (C)
	VCC		_		DIF 3V
	VCCA (2/3)				REG D2V
	AD15	IC2001-154	B-4	WF-9	
	AD14	IC2001-153	B-4	WF-9	VTR MAIN C.B.A. (C)
104	AD13	IC2001-152	B-4	WF-9	(0)
105	AD12	IC2001-151	B-4	WF-9	
106	GND	GND	_	_	
107	AD11	IC2001-150	B-4	WF-9	
108	AD10	IC2001-149	B-4	WF-9	VTD MAIN C D A (O)
109	AD9	IC2001-148	B-4	WF-9	VTR MAIN C.B.A. (C)
110	AD8	IC2001-147	B-4	WF-9	
111	VCCA (2/3)			_	REG D 2V
	AD7	IC2001-146	B-4	WF-9	
113	AD6	IC2001-145	B-4	WF-9	
	AD5	IC2001-144	B-4	WF-9	VTR MAIN C.B.A. (C)
	AD4	IC2001-143	B-4	WF-9	
	GND	GND	_		
	AD3	IC2001-142	B-4	WF-9	
	AD2	IC2001-141	B-4	WF-9	
119		IC2001-141		-	VTR MAIN C.B.A. (C)
-			B-4	WF-9	
	AD0	iC2001-139	B-4	WF-9	
121	GND	GND			
-	/LCNTD	R3842 - (LOWER)	C-5	WF-10	VTR MAIN C.B.A. (F)
-	/RD	_		_	
	ALE	IC2001-135	A-4	WF-11	
125		IC2001-133	A-4	WF-11	VTR MAIN C.B.A. (C)
126	BCLK	IC2001-132	A-4	WF-12	
127	VCCB (2/3)				REG D 2V
128	VCC	_	_	_	DIF 3V
129	VCCB (2/3)	-	<u> </u>	_	REG D 2V
130	AD15/DBA0	IC3201-151	B-5	WF-13,14	
131	AD14/DBA1	IC3201-152	B-5	WF-13,14	
132	AD13/DBA2	IC3201-153	B-5	WF-13,14	VTR MAIN C.B.A. (C)
133	AD12/DBA3	IC3201-154	B-5	WF-13,14	
	ADB11/SMPA	IC3201-155	B-5	WF-13,14	
	GND	GND	_		
136	ADB10/DBB0	RA3806-2	B-11		GND
137	ADB9/DBB1	RA3806-4	B-11		GND
_	ADB8/DBB2	RA3806-6	B-11		GND
	ADB7/DBB3	RA3806-8	B-11		GND
-				ME 4E	
	ADB6/SMPB	R3834 - (RIGHT)	B-5	WF-15	VTR MAIN C.B.A. (F)
141	VCCB (2/3)			14/5 : 2	REG D 2V
	CLK18	IC3201-3	B-6	WF-16	VTR MAIN C.B.A. (C)
_	VCC		_		DIF 3V
144	SSP	IC3201-148	B-5	WF-4	VTR MAIN C.B.A. (C)

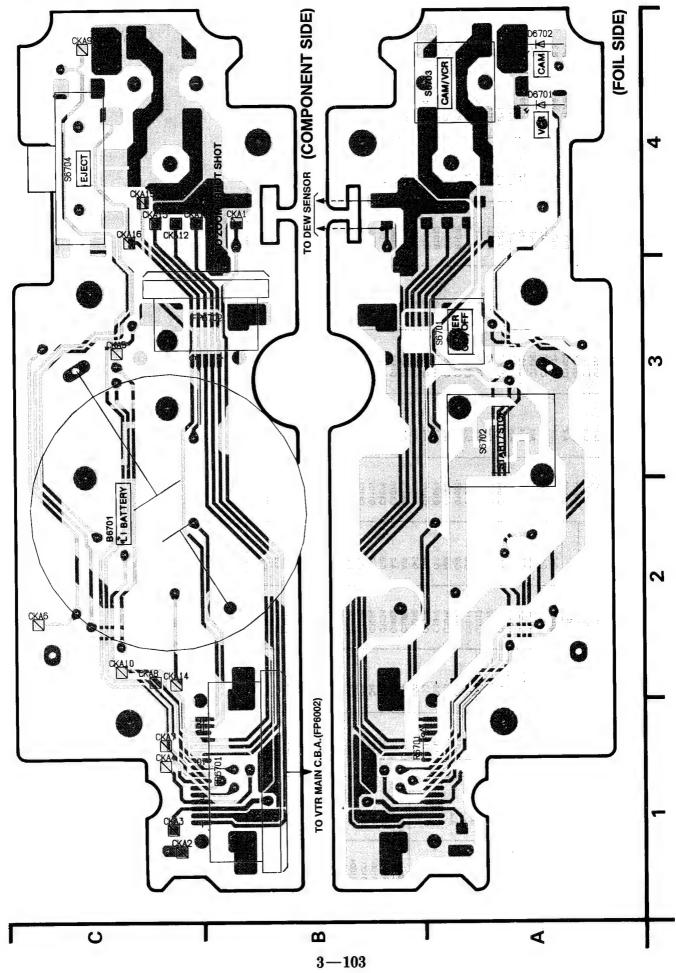
3-39. POWER C.B.A. (VEP01801C)



											R1108 A-3	_						_											-					_			
											6.3						_																	-			
	R1011	R1012	R1013	R1014	R1015	R1020	R1021	R1022	R1023	R1024	R1025	R1030	R1031	R1032	R1033	R1034	R1035	R1040	R1041	R1042	R1043	R1044	R1050	R1051	R1052	R1053	R1054	R1056	R1057	R1058	R1059	R1061	R1062	R1070	R1071	R1072	R1073
	C-2	Ç-3	A-3	A-3	A-2	A-2	55	D-3	B-3	B-3	B-2	B-2	B-2	B-2	B-2	B-2	B-3	B-3	B-2	B-2	A-2	B-4	B-3	A-3	A-3	A-2	A-3	8-4			7	B-3	B-3	C-5	B-4	B-4	ဗ
	C1118	C1119	C1121	C1122	C1123	C1124	C1128	C1129	C1131	C1132	C1133	C1134	C1141	C1142	C1143	C1144	C1151	C1152	C1153	C1154	C1155	C1156	C1157	C1171	C1172	C1173	C1174	C1251	Donicator	nesision	R1001	R1003	R1004	R1005	R1008	R1009	R1010
POWER C.B.A.	A-1	A-1	A-2	<u>۲</u>	C-4	C-4	A-4	A-4	A-4	A-4	A-4	8-4	B-3	A-4	C-5	A-4	C-5	A-4	A-3	A-1	A-1	A-1	A-1	C-4	A-1	A-3	A-3	A-3	A-3	A-3	A-3	A-3	A-3	A-3	A-2	A-2	6-3
POWE	C1041	C1042	C1043	C1045	C1046	C1047	C1051	C1052	C1053	C1055	C1056	C1058	C1059	C1061	C1062	C1063	C1064	C1065	C1066	C1071	C1072	C1073	C1074	C1075	C1076	C1101	C1102	C1103	C1104	C1105	C1106	C1107	C1111	C1112	C1113	C1114	C1117
	B-4	B-3	C-5	C-5	C-4	C. 4			C-2	C-5	C-2	C-5	B 4	A-3	A-3	3	င္ပဒ	65	C-2	స్ట	D-3	D-3	A-2	A-2	e-5	స్ట	స్త	D-3	0.4	4	B-2	A-2	A-2	A-2	A-2	85	25
	L1052	L1054	L1061	L1062	L1071	L1072	Consoling	Capacitor	C1001	C1002	C1003	C1004	C1009	C1011	C1012	J C1013	C1014	C1015	C1016	C1017	C1018	C1019	C1021	C1022	C1023	C1024	C1025	C1026	C1027	C1028	C1029	C1031	C1032	C1033	C1034	C1035	C1036
	A-4	B-2	A-4	A-4			B-4	D-2			B-4			<u>?</u>			25	క	3	င်	z Z	స్ట	స్ట	63	3	స్ట	4	40	4	3	C-5	C.	5	2	5	4	A-4
	D1102	D1103	D1151	D1152	Connector		FP1001	PP1001	٥	_	IP1001	Traneformer		T1001	i	5	L1001	L1011	L1012	L1013	L1014	L1015	L1016	- L1017	L1021	L1022	L1023	L1024	L1025	L1026	L1029	L1031	L1032	L1041	L1042	L1043	L1051
	ouit	B.3	9 6	ŝ		Α.3	2 0	2 6-4	2-4	2 4	Α-1		. 6	A-3		0 0	0 0	4 4	† V V	· ·		2	resistor				8-3 R-3	ر د د	8-3 -	A-3			A-4	A-4	A-4	A-4	A-3
	Integrated Circuit	101001	10100	7000	Transistor	01011		0102	0.1031	1200	01042	01051	0.1052	01053	01054	01055	01056	01061	01062	01071	5		Transistor & Resistor		QR1001	QH1002	QH1003	QH1004	QR1055	QR1101	Special	proge	D1051	D1052	D1061	D1062	D1101

ADDRESS INFORMATION

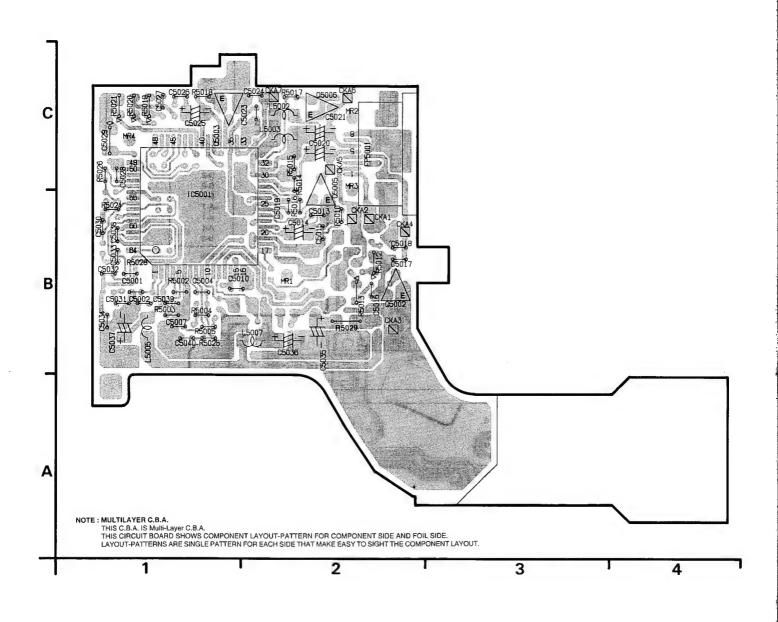
3-40. REAR OPERATION C.B.A. (VEP06C37A)



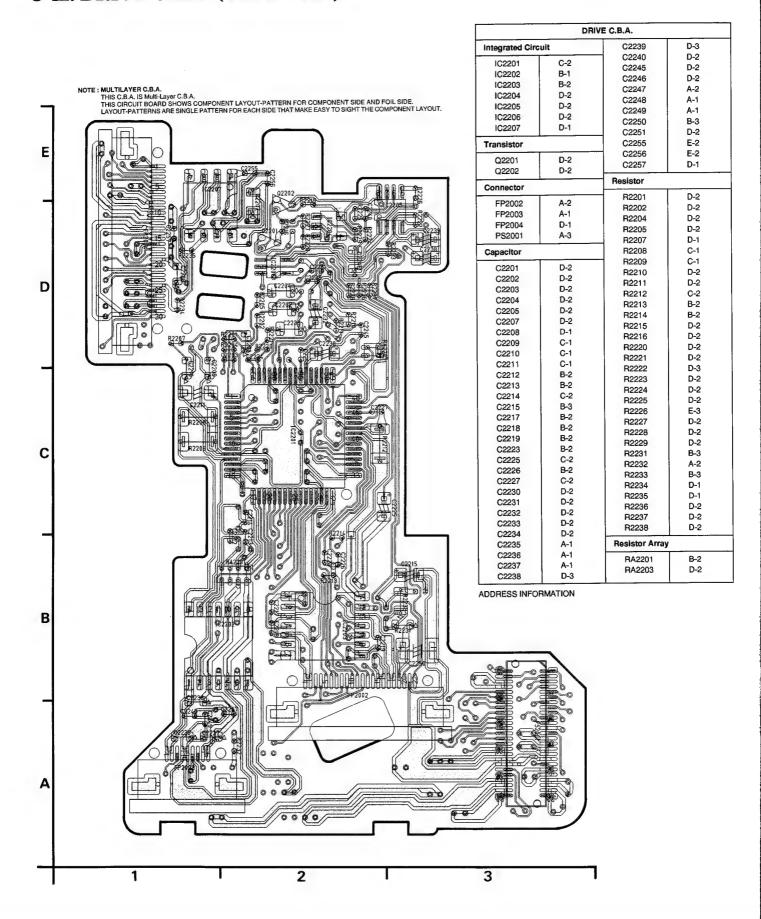
3-41. HEAD AMP C.B.A. (VEP05352A)

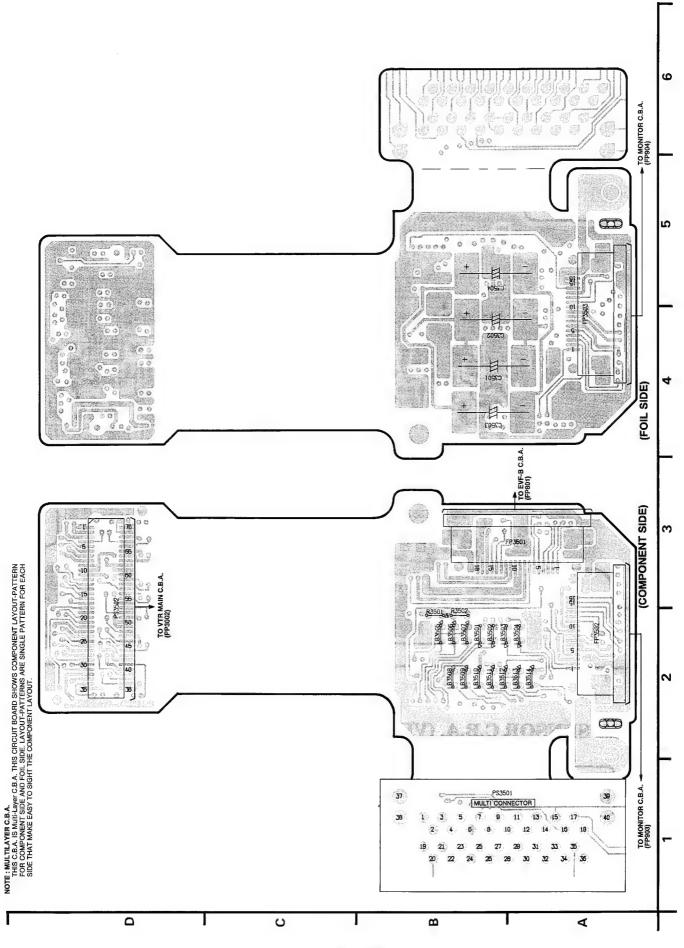
				HEAD/RE	CAMP C.B.A.				
Integrated Circ	uit	L5003	C-2	C5018	B-2	C5034	B-1	R5013	B-2
IC5001	B-1	L5005 L5007	B-1 B-2	C5019 C5020	B-2 C-2	C5035 C5036	B-2 B-2	R5014 R5015	C-2 C-2
Transistor		Capacitor	1	C5021 C5023	C-2 C-2	C5037 C5038	B-1 B-1	R5016 R5017	B-2 C-2
Q5002 Q5003 Q5005	B-2 C-1 B-2	C5001 C5002	B-1 B-1	C5024 C5025	C-2 C-1	C5039 C5040	B-1 B-1	R5018 R5019	C-1 C-1
Q5005 Q5006	C-2	C5004 C5007	B-1 B-1	C5026 C5027	C-1 C-1	Resistor		R5020 R5021	C-1 C-1
Connector		C5010	B-1	C5028	C-1	R5002	B-1	R5024	B-1
FP5001	C-2	C5013 C5014	B-2 B-2	C5029 C5030	C-1 B-1	R5003 R5004	B-1 B-1	R5025 R5026	B-1 C-1
Coil		C5015 C5016	B-2 B-2	C5031 C5032	B-1 B-1	R5005 R5010	B-1 B-2	R5028 R5029	B-1 B-2
L5002	C-2	C5017	B-2	C5033	B-1	R5012	B-2		

ADDRESS INFORMATION



3-42, DRIVE C.B.A. (VEP02561A)

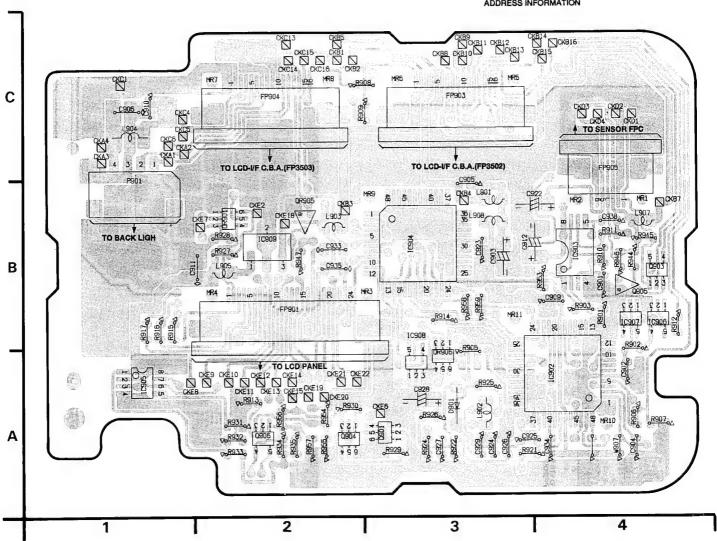




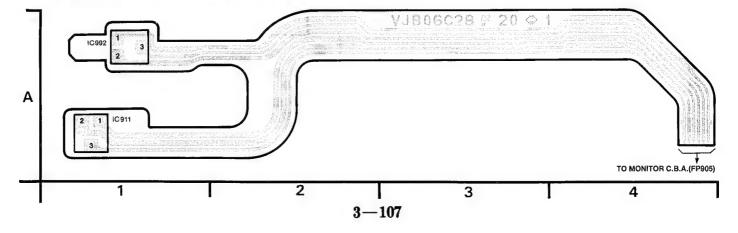
3-44. MONITOR C.B.A. (VEP26195B)

	MONI	TOR C.B.A.	
Integrated (Circuit	Q905	B-4
IC902	A-4	Q906	A-2
IC903	B-4	Transistor i	Resistor
IC904	B-3	QR901	B-2
IC905	A-1	QR905	B-2
IC906	B-4	QR906	A-3
IC907	B-4	Q11300	7-0
IC908	B-3	Connector	
IC909	B-2	FP901	B-2
Transistor		FP903	C-3
0001	A-3	FP904	C-2
Q901 Q903	B-4	FP905	C-4
Q903 Q904	A-2	P901	B-1

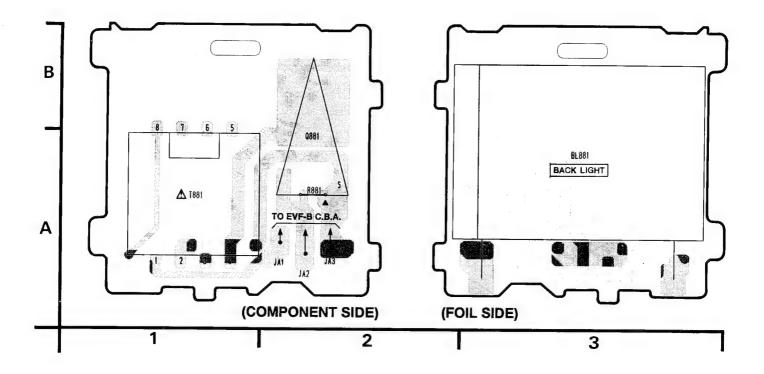
ADDRESS INFORMATION



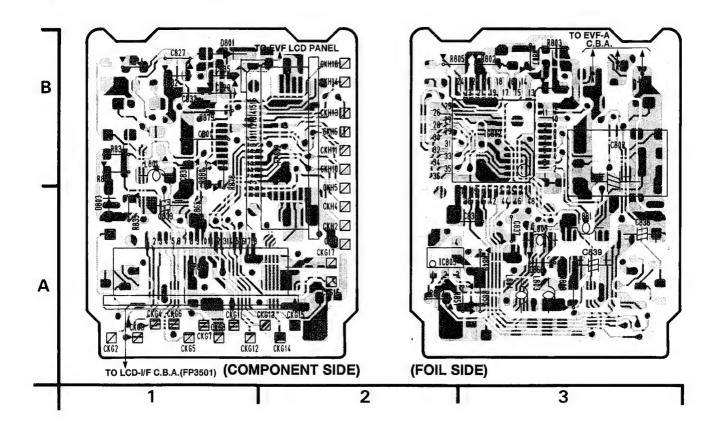
3-45. HALL SENSOR C.B.A. (VEP06C28A)



3-46. E.V.F. (A) C.B.A. (VEP28240D)

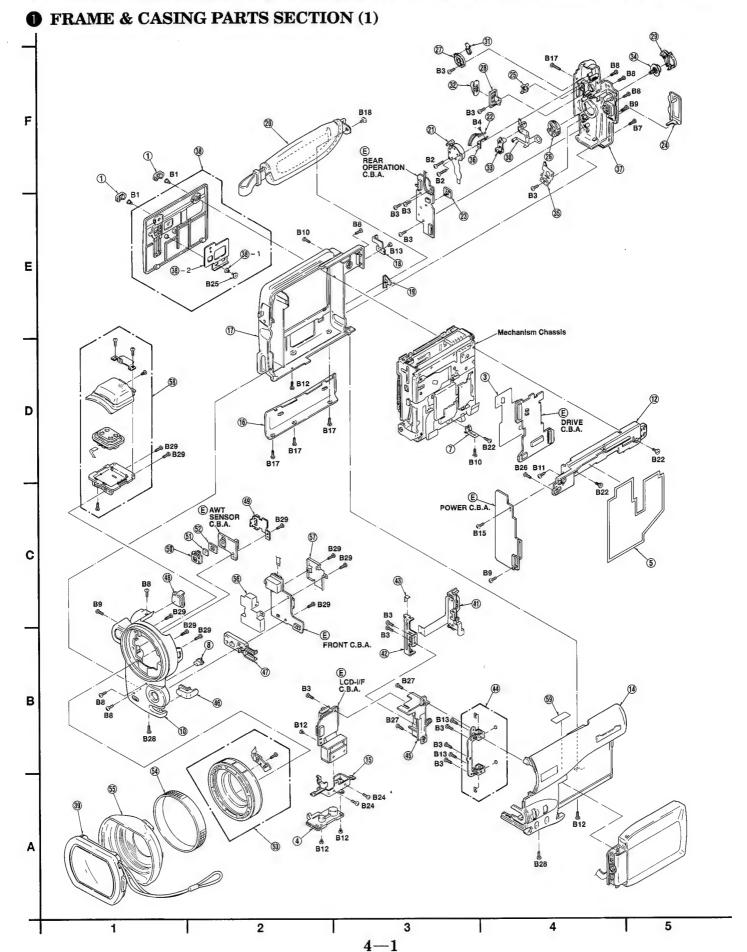


3-47. E.V.F. (B) C.B.A. (VEP28244B)



SECTION 4 EXPLODED VIEWS & PARTS LIST

4-1. EXPLODED VIEWS & MECHANICAL REPLACEMENT PARTS LIST



1. FRAME & CASING PARTS SECTION (1)

Note: 1. * Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE

Components identified with the mark \(\Delta \) have the special characteristics for safety. When replacing any

		with the mark 25 have the special cha use only the same type.	انات س	should for early, which replacing an	822	VHD0866	SCREW		3
					B24	XQN2+B3FZ	SCREW		2
			_		B25	VHD1105	SCREW		
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	B26	VMS5604	SCREW	1_1	1
					B27	XQN2+BF4FZ	SCREW	2	2 ,
1	VGP4575	SCREW CAP	2		B28	XQN16+B3FN	SCREW	1	2
2	VMZ2689	BARRIER	1		829	XQN2+CJ5	SCREW	8	
4	VMD2796	TRIPOD FRAME	1						
5	VMZ2708	BER BARRIER	1						
7	VXA5933	MECH. FIXING ANGLE ASS'Y	1					\vdash	
8	VGL0772	TALLY PANEL	1					T	
10	VYK8185	FRONT CASE (1) ASS'Y	1						
12	VYK7875	MECH. FIXING PIECE ASS'Y	1						
14	VYK8183	SIDE CASE R (2) ASS'Y	1					✝	
15	VMP5461	MULTICONNECTOR ANGLE	1					\vdash	
16	VGQ4495	GRIP COVER	1					\vdash	
17	VYK8219	SIDE CASE L (1) ASS' Y	1			 		†	
18	VMA9749	REAR FIXING ANGLE	1			1		T	
19	VMA9770	GRIP ANGLE	1		<u> </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·	\vdash	·
20	VYC0793	GRIP BELT ASS'Y	1					\vdash	
21	VEK8154	ZOOM OPERATION ASS'Y	1			1			
22	VEK8160	DEW SENSOR	1		 			\vdash	-
23	VMG0763	SWITCH	1		 	1		\vdash	
24	VQF0707	JACK COVER	1		-	 	-	╫	-
	VGL0764	VTR CHANGE PANEL	1		-	 		+	
26	VGQ4272	S/S BUTTON PIECE	1			 		+	
	VGQ4272 VGQ4492		·		-	 		⊢	
27	VGQ4492 VGQ4493	PHOTO SHOT BUTTON HOLDER EJECT BUTTON HOLDER	1					\vdash	
			-		 			⊢	
29	VGQ4494	S/S LEVER	1		 	 			
30	VGQ4515	B ESD PLATE	1			-		1	
31	VGU7574	PHOTO SHOT BUTTON	1			 		-	
32	VGU7575	EJECT BUTTON	1		 	ļ		\vdash	
	VGU7576	VTR CHANGE BUTTON	1					<u> </u>	
	VGU7577	S/S BUTTON	1		1			<u> </u>	
35	VMC1271	S/S CLICK SPRING	1		1	ļ		-	
36	VMP5412	DEW FIXING ANGLE	1		ļ			-	
37	VYK8218	REAR CASE (1) ASS'Y	_ 1		1			ļ	
38	VYK7929	CASSETTE COVER ASS' Y	1					_	
38-1	VMB3148	CASSETTE COVER SPRING	1					_	
38-2	VMP5413	CASSETTE FIXING BASE	1					<u> </u>	
	VYF2439	LENS HOOD CAP ASS'Y	1					L	
		BATTERY TERMINAL ASS'Y	_1						
	VMP5386	BATTERY FIXING ANGLE	_1					<u> </u>	
	VGQ4524	BLIND BARRIER	_1					L	
	VYK8216	LCD FIXING PLATE ASS'Y	1					_	
	VYK7881	HINGE PIECE ASS'Y	1					L	
46	VKW2418	REMOTE CONTROL WINDOW	_1						
	VYK8071	TALLY PANEL HOLDER ASS'Y	1					L	
48	VKW2419	AWT WINDOW	1						
49	VMP5467	AWT ANGLE	1					L	
50	VGQ4592	AWT HOLDER	1					Ĺ	
	VDL0397	IR CUT FILTER	1					Ĺ	
	VGQ3306	IR PLATE SPACER R	1						
	VXP1871	WF RING ASS'Y	1					L	
	VDW0512	WF DECORETION RING	1					Ĺ	
	VYF2422	LENS HOOD ASS' Y	1					Ĺ	
	VSC4666	FRONT CASE ANGLE A	1						
	VSC4867	FRONT CASE ANGLE B	1						
58	VYK8189	MIC CASE ASS'Y	1					L	
59	VGQ4894	ESD BARRIER	1						
B1	VHD1100	SCREW	2						
		SCREW	2						
	XQN2+BJ4	SCREW	12						
		SCREW	1						
		SCREW	1					_	
		SCREW	4						
		SCREW	2					_	
		SCREW	1						
		SCREW	5		-			-	
		SCREW	3		-	-		-	
		SCREW	1					_	
		SCREW	4			-			-
D11	A STATE OF DEST L	O O I I I I I I I I I I I I I I I I I I	-		-			_	

Ref. No. Part No. B18 VHD1179

Part Name & DescriptionPcs

Remarks

2 FRAME & CASING PARTS SECTION (2) B101 B101 B101 B101 B101 G PB102 16 B103 B103 B105 B105 SIDE SILVER F B104 LCD FIXING PIECE SIDE:BLACK E EVF-B C.B.A. E B107 B107 B103 @ ® B107 B103 D B115 E VTR MAIN C.B. B111 @ B106 B111 9 B106 C B111 E CAMERA SUB C.B.A. В B106 B109 B109/ B103 CAMERA MAIN B103 B112 B112 Α ∯ B112 B112 B109 B111 2 5 3 4 4 - 3

2. FRAME & CASING PARTS SECTION (2)

Note: 1. * Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE

Components identified with the mark Δ have the special characteristics for safety. When replacing an of these components, use only the same type.

of the	se components, us	se only the same type.			170	VEEUASU	SPEAKER CABLE	1	1 -P3001
		· · · · · · · · · · · · · · · · · · ·		110	B101	XQS2+A7FZ	SCREW	4	
					8102	XQN16+B8FN	SCREW	1	
Ref. No.	Part No.	Part Name & Description	Pc	Remarks	B103	XQN16+BJ3FZ	SCREW	10	
					B104	XQN16+B4FN	SCREW	2	
101	VMP2407	SHOE	1					+	
			-		8105	XQN2+CJ6FZ	SCREW	2	
102	VMP5470	SHOE ANGLE	1		B106	XQN2+BJ4	SCREW	8	
103	VMC1288	SHOE SPRING	1		B107	VHD1127	SCREW	4	
104	VGQ4811	SHOE COVER	1		B108	VMS5604	SCREW	2	
105	VKM4890	TOP CASE	1		B109	XQN2+B3	SCREW	3	
			1			+		-	
106	VGQ4627	VTR EARTH PLATE	<u>ٺ</u>		B110	XQN2+BJ8	SCREW	1	
107	VGU7779	VTR OPERATION BUTTON (A)	_ 1		B111	XQN16+BJ4FZ	SCREW	9	
108	VGU7780	VTR OPERATION BUTTON (B)	1		B112	XQN16+B25FZ	SCREW	2	
109	VMB2531	MODE KNOB SPRING	1		B113	XQN2+BF4FZ	SCREW	3	
110	VGQ4598	VTR OPERATION HOLDER	1					-	
			-		B114	XQN16+B3FZ	SCREW	1	
111	VGQ4853	VTR DEADEN SHEET	_1		B115	VHD1099	SCREW	2	
112	VJB29131	TOP OP. FLEX. CARD	1	FP6801-FP6001	8116	XVE2A+3FZ	SCREW	1	
113	VYK8102	EVF CASE ASS' Y (UPPER)	1						
114	VYK8193	EVF CASE ASS'Y (LOWER)	1					-	
			-		-			-	
114-1	VMP5464	EVF CASE ANGLE	1					lacksquare	
115	VYK7883	EVF HOLD CASE ASS'Y	1			L			1
116	VGQ4584	EVF ROTARY PIECE	1						
117	VGQ4585	EVF ROTARY HOLDER	2					\vdash	
118	VMC1365	EVF ROTARY SPRING	1		-			-	
								-	
119	VMP5465	EVF HOLD ANGLE	1					L	
120	VGQ4675	EVF LOCK PIECE	1					L	
121	VYK8120	EYE CAP HOLDER ASS'Y	1						
121-1	VMG1100	EYE CAP	1		ļ				
	VSC4865	LCD SHIELD CASE	-		I	-		\vdash	
122			'			ļ		\vdash	
123		EVF FLEX. CARD	_1	FP801-FP3501	1			l	
124	VWJ1174	EVF A-EVF B FLEX. CARD	1	EVF A-EVF B					
125	VGQ4481	B. L. HOLDER	1					-	
126		LCD	1					_	
			-						
127	VGQ4730	LCD MASK	1			L			
128	VJF1315	LCD FIXING PIECE	1		1				1
129	VGQ3457	EVF SHEET	1						7.33
130	VGQ4673	EVF PROTECT PANEL	1		-			_	
131		EVF BARRIER SHEET	1						
				-					
132		BATTERY LOCK KNOB	1						
133	VMB3143	BATTERY LOCK SPRING	1						
134	VGQ4448	BATTERY LOCK HOLDER	1						
135		BATTERY DOOR (UPPER)	1					_	
		BATTERY DOOR (LOWER)	1				-	_	
136			_						
137		DOOR KNOB HOLDER	1						
138	VGU7556	BATTERY DOOR KNOB	- 1						
139	VGQ4446	BATTERY DOOR COVER	-1						
140	VMB2815	EYE CAP LOCK SPRING	1		ļ				
141		BATTERY DOOR ROTARY ANGLE	1						
142		BATTERY DOOR FIXING ANGLE	1						l
143	VMS6210	BATTERY DOOR SHAFT	1						
144	VMB3144	BATTERY DOOR OPEN SPRING	1						
		LCD LOCK LEVER	1		 			_	
-					-				
146	VMB3145	LCD LOCK SPRING	1						
147	VHD1093	LCD LOCK SHAFT	_1						
148	VYK7758	STAND ARM ASS'Y	1						
149		SPEAKER HOLDER ASS'Y	1					-	
150		SIDE CASE R (2) ASS'Y	<u> </u>					-	
151	VMP5469	CAMERA FRAME	_1						
152	VMG0952	EXPAND RUBBER	3						1
153	VKF2732	EVR COVER	1						
154	VGQ4582	CAMERA EARTH PLATE	1	-					
		CAMERA OP. BUTTON	<u>'</u>		-				
155									
156		RADIATOR PLATE (A)	1						
157	VYQ1525	BATTERY COVER ASS' Y	1						
158	VGQ4580	CAMERA OP. HOLDER	1					\neg	
159	VGU7777	FOCUS BUTTON	1		-			-	
								_	
160	VGU7776	AUTO/MANUAL KNOB	1						
161	VGQ4813	KNOB COVER	1					_]	l
162	VMB3197	KNOB COVER SPRING	1					\neg	
163		16P FLAT CARD CABLE	1	FP6002-FP6701				-	
		15P FLAT CARD CABLE	_		 			_	
			_	FP4001-FP4801					
165		CAMERA FLEX. CARD	1	FP501-FP301		T		7	
186	VGQ4731	CAMERA SUB BARRIER	1					-	
167		AWT FLEX. CARD	1	FP502-FP401				-	
		TAPE							
168			_1				400-440-		
169	VGQ4343	CAMERA BARRIER	1					_ [
		····	_					_	

Ref. No.

170

Part No.

VEE0A50

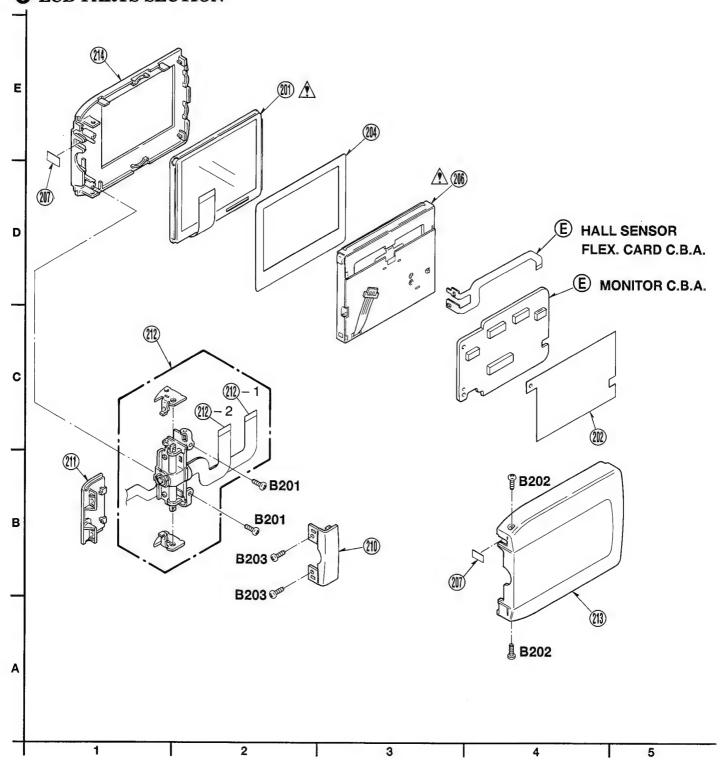
Part Name & DescriptionPcs

SPEAKER CABLE

Remarks

1 -P3001

3 LCD PARTS SECTION



3. LCD PARTS SECTION

Note: 1. * Be sure to make your orders of replacement parts according to this list.

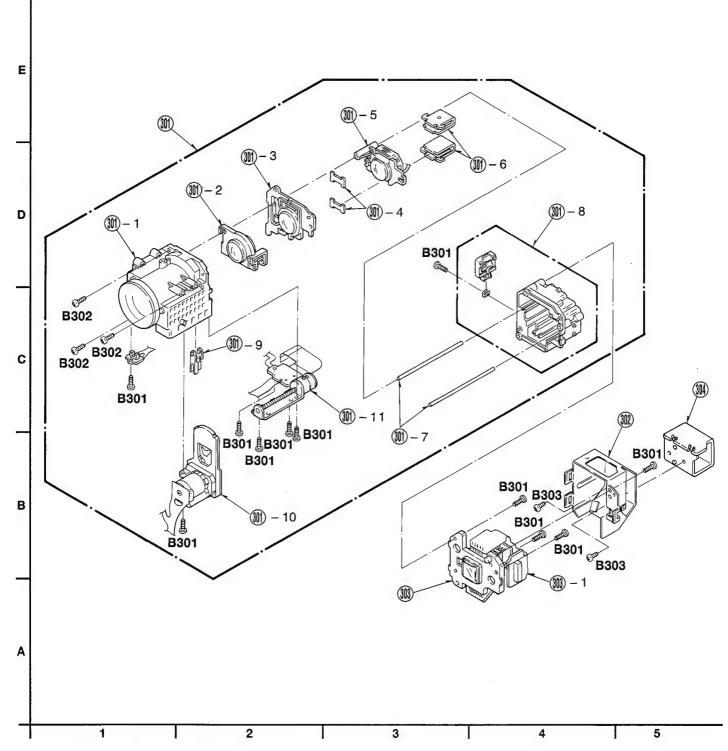
2. IMPORTANT SAFETY NOTICE

Components identified with the mark △ have the special characteristics for safety. When replacing a of these components, use only the same type.

Ref. No.	Part No.	Part Name & Descripti	orPcs	Remarks
/ \ 201	DCX501AKB7	LCD PANEL	+	
202	VGQ4630	LCD BARRIER	1	
204	VGQ4695	LCD SHIELD SHEET	1	
∆ 208	VEK8215	BACK LIGHT ASS' Y	1	
207	VGQ4823	PROTECT SHEET	2	
210	VGQ4814	SHAFT COVER (UPPER)	1	

L	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
[.	211	VYQ1528	SHAFT COVER (LOWER) ASS'Y	1	
	212	VXD0280	LCD ROTARY SHAFT (1) ASS'Y	1	
	212-1	VJB03E23	MONITOR SIGNAL FLEX.	1	
	212-2	VJB06C27	MONITOR OPERATION FLEX.	1	
	213	VYK8187	LCD TOP CASE ASS'Y	1	
L	214	VYK8188	LCD BOTTOM CASE ASS'Y	1	
	B201	XQN2+CJ6	SCREW	2	
	B202	XQN2+BF5FZ	SCREW	2	
	8203	XQN2+BF4FN	SCREW	2	

4 CAMERA LENS SECTION



4. CAMERA LENS SECTION

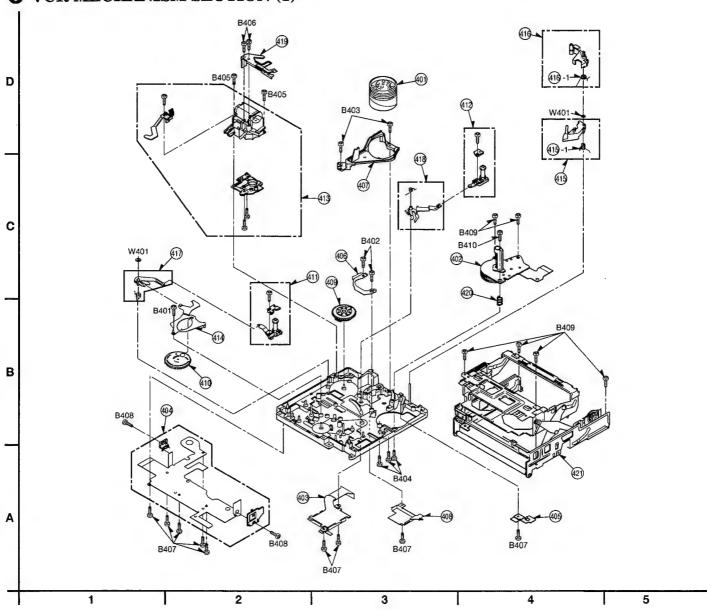
Note: 1. * Be sure to make your orders of replacement parts according to this list. 2. IMPORTANT SAFETY NOTICE

Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	orPes	Remarks
301	VXW0367	LENS ASS' Y	-	
301-1	VXQ0666	MAIN ASS'Y	1	
301-2	VXP1829	2ND MOVING FRAME ASS'Y	1	
301-3	VXQ0867	3RD LENS ASS' Y	1	
301-4	VMA9768	SIDE YOKE	2	
301-5	VXP1830	4TH MOVING FRAME ASS'Y	1	
301-6	VXA5946	YOKE ASS' Y	2	

L	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	301-7	VMS6230	GUIDE POLE	1	
	301-8	VDW0508	MASTER FLANGE	1	
ſ	301-9	VML3277	2ND LACK	1	
	301-10	VEK8197	LENS FLEX. CARD	1	
	301-11	VEM0621	ZOOM MOTOR ASS'Y	1	
	302	VSC4668	SHIELD CASE	1	
	303	VXQ0669	PRISM ASS' Y	1	
ſ	303-1	VEP22269B	CCD FLEX. CARD . C. B. A.	1	(RTL)
	304	VGQ4738	CCD PLATE	1	
L					
I	B301	XQN16+CJ5	SCREW	11	
1	B302	XQN16+CJ8	SCREW	3	
Ί	B303	XQN2+B3	SCREW	2	

6 VCR MECHANISM SECTION (1)



5. VCR MECHANISM SECTION (1)

Note: 1. * Be sure to make your orders of replacement parts according to this list.

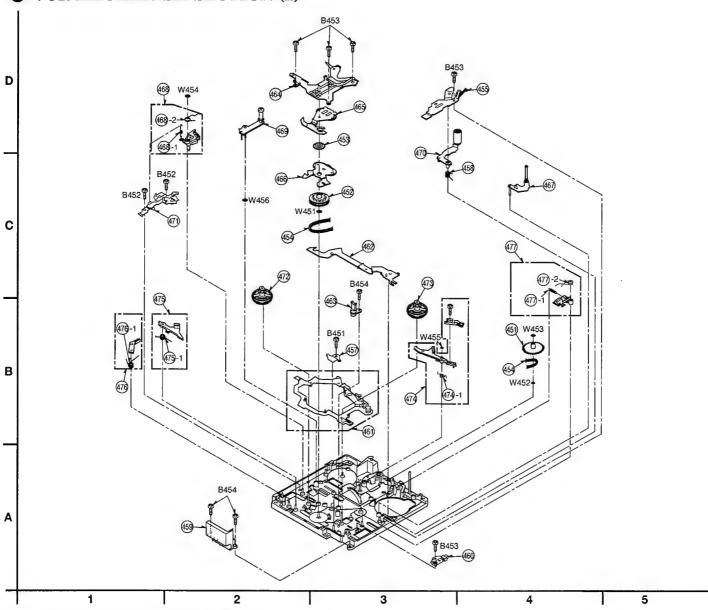
2. IMPORTANT SAFETY NOTICE

Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	rPcs	Remarks
401	VEG1438	CYLINDER UNIT	1	
402	VEM0624	CAPSTAN MOTOR ASS'Y	1	
403	VEP05352A	HEAD AMP P. C. BOARD	1	
403~*	VSC4639	HEAD AMP SHIELD CASE	1	
404	VES0856	FLEXIBLE CABLE	1	
405	VMA9708	CAPSTAN COVER	1	
406	VMA9179	RADON PLATE	1	
407	VMD2373	RAIL	1	
408	VSC4640	SHIELD CASE	1	
409	VSR0114	MODE SW	1	
410	VXA5407	CAM GEAR	1	
411	VXA5409	S BOAT ASS'Y	1	
412	VXA5410	T BOAR ASS' Y	1	
413	VXA5417	GEAR BOX	1	
414	VXA5612	RADON ARM ASS'Y	1	
415	VXL2461	T2 ARM ASS Y	1	

Ref. No.	Part No.	Part Name & Description	Pro	Remarks
415-1	VMB2789	T2 ARM SPRING	1	NORGI KS
416	VXL2468	CLEANING ARM ASS' Y	1	
416-1	VMB2791	CLEANING ARM SPRING	1	
417	VXL2470	S1 ARM ASS' Y	1	
418	VXL2471	T1 ARM ASS' Y	1	
419	VMA9753	STOPPER	1	
420	VMB2777	CAPSTAN ADJ. SPRING	1	
421	VXA5387	GARAGE ASS' Y	1	
B401	VHD0878	SCREW	1	
+B402	VHD0989	SCREW	2	
B403	XQN14+B4	SCREW	2	
B404	VXQ0439	SCREW	3	
B405	XQN14+B35	SCREW	2	
B406	XQN14+8Q4	SCREW	2	
B407	XQN14+B15	SCREW	9	
B408	XQN14+B2	SCREW	2	
B409	VHD0882	SCREW	6	
B410	XQN14+B4FZ	SCREW	1	
W401	VMX2027	CUT WASHER	2	

6 VCR MECHANISM SECTION (2)



6. VCR MECHANISM SECTION (2)

Note: 1. * Be sure to make your orders of replacement parts according to this list.

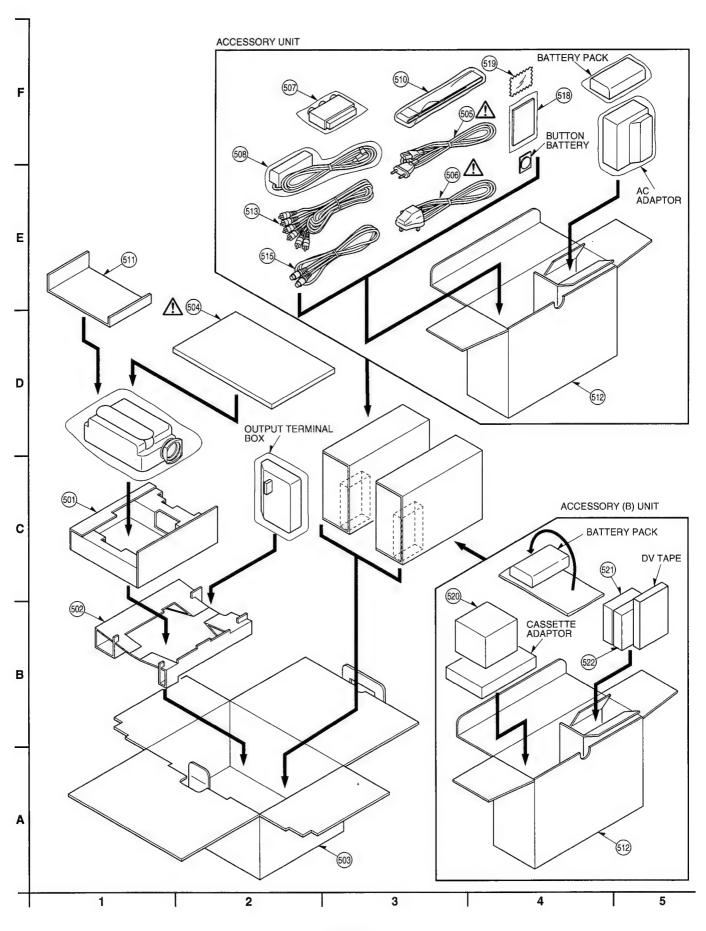
2. IMPORTANT SAFETY NOTICE

Components identified with the mark \triangle have the special characteristics for safety. When replacements of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
451	VDG1030	DRIVE PULLEY	1	
452	VDG1031	CENTER PULLEY	1	
453	VDG1032	SENSOR GEAR	1	
454	VDV0265	TIMING BELT	1	
455	VMA9178	PINCH PRESSURE PLATE	1	
457	VMA9181	BRAKE ROD SUPPORT (T)	1	
458	VMB2776	SPRING	1	
459	VSH0067	MIC SWITCH	1	
460	VSJ0114	SOLENGID	1	
461	VXA5401	BRAKE ROD ASS' Y	1	
462	VXA5408	T3 ROD ASS' Y	1	
463	VXA5411	LED HOLDER ASS' Y	1	
464	VXA5412	COVER PLATE ASS' Y	1	
465	VXL2454	P IDLER ARM ASS'Y	1	
466	VXL2455	FR IDLER ARM ASS'Y	1	
467	VXL2456	TENSION ARM ASS'Y	1	
468	VXL2732	PAD ARM ASS'Y	1	
468-1	VMB2788	TENSION SPRING	1	
468-2	VMB2787	PAD ARM SPRING	1	
469	VXL2462	T3 ARM ASS'Y	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
470	VXL2464	PINCH ARM ASS'Y	1	
471	VXL2466	EJECT ARM ASS'Y	1	
472	VXR0347	SUPPLY REEL TABLE	1	
473	VXR0348	TAKE UP REEL TABLE	1	
474	VXZ0319	TAKE UP MAIN BRAKE	1	
474-1	VMB2782	T MAIN BRAKE SPRING	1	
475	VXZ0321	SUPPLY MAIN BRAKE	1	
475-1	VMB2783	S MAIN BRAKE SPRING	1	
476	VXZ0322	FF BRAKE ASS' Y	1	
476-1	VMB2784	FF BRAKE SPRING	1	
477	VXZ0323	REV BRAKE ASS' Y	1	
477-1	VMB2786	REV SPRING	1	
477-2	VMB2785	REV BRAKE SPRING	1	
B451	VHD0882	SCREW	1	,
B452	XQN14+B15	SCREW	2	
B453	VHD0883	SCREW	5	·
B454	XQN14+B35	SCREW	3	
H451	VMX2503	WASHER	1	
H452	VMX2400	WASHER	1	
M453	VMX2504	WASHER	1	
W454	VMX2027	CUT WASHER	1	
N455	VMX2028	WASHER	1	
N456	VMX2394	WASHER	1	

PACKING PARTS & ACCESSORIES SECTION



7. PACKING PARTS & ACCESSORIES SECTION

Note: 1. * Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE

Components identified with the mark \triangle have the special characteristics for safety. When replacing any

4.0	ineria identified w	in the mark 23 have the special char	acte	ristics for safety. When replacing any				П	
of these	e components, us	e only the same type.						\vdash	
								\vdash	
Ref. No.	Part No.	Part Name & Description	Pro	Remarks					†
Kel. No.	141 0 110,	lart Name & Description	1 0.	Kellidi KS	-			-	
501	VPN4771	CUSHION (UPPER)	1					\vdash	
502		CUSHION (LOWER)	1					\vdash	
	VPG9289	PACKING CASE	1		-				
	VQT7291	OPERATING INSTRUCTIONS		GERMAN, ENGLISH					
21 304	VG17281	OF EIGHT ING TROOT TONS	<u> </u>	FRENCH, SUPANISH				⊢	
∆ 504	VQT7292	OPERATING INSTRUCTIONS	1	ITALIAN	—			\vdash	
	VJA0998	AC CORD	1	TIALIAN	-			\vdash	
	VJA0940	AC CORD	1					\vdash	
		AV ADAPTOR (IN)	1		-				
		DC CABLE ASS' Y	1		-	-		\vdash	
		SHOULDER BELT	1			ļ 		-	
		PAD PAD	1					-	
	VPN4724	ACCESSORIES PACKING	1					H	
			-		-			\vdash	
		AV OUTPUT CABLE S-VHS CABLE	1					⊢	
		REMOTE CONTROLLER	1						
			-					\vdash	
		LENS CLEANER	1					-	
		WIDE CONVERSION LENS MC PROTECTOR	1		-				_
			1					\vdash	
522	VYQ1524	ND FILTER	1					<u> </u>	
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Part Name & DescriptionPcs

Remarks

Ref. No. Part No.

4-2. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE : Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

- in salety. Their repairing any or mose components, use only the salety type.

 3. Unless otherwise specified,

 All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS(uf), P=uuF.
- The P.C. Board units marked width " | " show below the main assembled parts.
 The marking (RTL) indicaters the retention time is limited for this item.
 After the discontinuation of this assembly in production, it will no longer be available.

					01072	_		C. CAPACITOR OIL TOT	0. 01	-	
L/EDO4	0010				C1073	_			330P	1	
VEP01	8010		_		C1074		ECUX1E223KBV	C. CAPACITOR CH 25V O.	023U	_1	
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	C1075		ECST1AY106Z	T. CAPACITOR CH 10V	100	_1	
	VEP01801C	POWER P. C. BOARD		(RTL)	C1076		ECUM1A105KBN	C. CAPACITOR CH 10V	10	1	
			_		C1101		ECUX1H101JCQ	C. CAPACITOR CH 50V	100P	1	
	VEP02561A	DRIVE P. C. BOARD	1	(RTL)	C1102		ECUX1C334KBN	C. CAPACITOR CH 16V	D. 33U	1	
	VEI CECOIN		Ι÷		C1103		ECUX1C473KBV	C. CAPACITOR CH 16V O.	047U	1	
-	VEP03E52A	VTR MAIN P. C. BOARD	1	(RTL)	C1104	-			0. 1U	1	
	VEPUSESZA	VIR MAIN F. C. BOARD	H.	(RIE)	C1105	-		C. CAPACITOR CH 10V	10	1	
	155004400	CHIEDA (MALIN D. C. DOADD	-	(DTI)	C1108			C. CAPACITOR CH 16V	0. 10	1	
	VEP23443B	CAMERA/MAIN P. C. BOARD		(RTL)					10	1	
					C1107			C. CAPACITOR CH 10V		-	
	VEP20737B	CAMERA OPERATION P. C. BOARD	1	(RTL)	C1111		-	C. CAPACITOR CH 50V	470P	1	
					C1112			C. CAPACITOR CH 25V	470P	1	
	VEP28240D	E. V. F. (A) P. C. BOARD	1	(RTL)	C1113			C. CAPACITOR CH 50V	150P	1	
					C1114		ECUX1H390JCQ	C. CAPACITOR CH 50V	39P	1	
	VEP28244B	E. V. F. (B) P. C. BOARD	1	(RTL)	C1117		ECUM1A105KBN	C. CAPACITOR CH 10V	10	-1	
			_		C1118		ECST1AY106Z	T. CAPACITOR CH 10V	100	1	
	VEP06C28A	HALL SENSOR P. C. BOARD	1	(RTL)	C1119		ECUM1A105KBN	C. CAPACITOR CH 10V	10	1	
_	VEI COCECA	TRALE CENTON T. C. DOVING	H		C1121		ECUX1H822KBV	C. CAPACITOR CH 50V 8	3200P	1	
	VEDOCADED	HONITOD D. C. BOADD	-	(RTL)	C1122	$\overline{}$			3200P	1	
	VEP26195B	MONITOR P. C. BOARD	<u> </u>	(RIL)	C1123	_			150P	1	
			_	(==:)		-			39P	1	
	VEP00Y65A	LCD/IF P. C. BOARD	_1	(RTL)	C1124	$\overline{}$		C. CAPACITOR CH 50V		<u>,</u>	
						_		C. CAPACITOR CH 10V	10		
	VEP04684A	FRONT P. C. BOARD	1	(RTL)	C1131	_		C. CAPACITOR CH 50V	470P	1	
					C1132				2200P	1	
	VEP22270A	AWT SENSOR P. C. BOARD	1	(RTL)	C1133		ECUX1H151JCQ	C. CAPACITOR CH 50V	150P	1	
					C1134		ECUX1H390JCQ	C. CAPACITOR CH 50V	39P	1	
	VEP06C24A	TOP OPERATION P. C. BOARD	1	(RTL)	C1141		ECUM1E223KBN	C. CAPACITOR CH 25V O.	022U	1	
	12, 0002		-		C1142		ECUX1H222KBV	C. CAPACITOR CH 50V	2200P	1	
	VEP06C37A	REAR OPERATION P. C. BOARD	1	(RTL)	C1143				150P	- 1	
	VEPUOUS /A	REAR OFERATION F. O. BOARD	<u> </u>	(RTE)	C1144			C. CAPACITOR CH 50V	39P	1	
			-	(071)	C1151	_		C. CAPACITOR CH 50V O.		1	
	VEP22278A	CAMERA SUB P. C. BOARD	<u>'</u>	(RTL)						1	
			_		C1152				8200P	i i	
	VEP05352A	HEAD AMP P. C. BOARD	1	(RTL)	C1153	_		C. CAPACITOR CH 50V	150P	1.	
					C1154			C. CAPACITOR CH 50V	82P	1	
	VEP01801C	POWER P. C. BOARD	1	(RTL)	C1155		ECST1AY225Z	T. CAPACITOR CH 10V	2. 20	_1	
					C1156		ECST1AY106Z	T. CAPACITOR CH 10V	100	1	
C1001	ECUX1A335KBM	C. CAPACITOR CH 10V 3.3P	1		C1157		ECUXOJ335KBN	C. CAPACITOR CH6. 3V	3. 30	1	
C1002		C. CAPACITOR 12V 15P	1		C1171		ECUX1H822KBV	C. CAPACITOR CH 50V	8200P	1	
		C. CAPACITOR CH 16V 10U	2		C1172	_			B200P	1	
			1	-	C1173	-	_	C. CAPACITOR CH 50V	150P	1	
C1009		C. CAPACITOR CH 25V 0.1U	-		C1174			C. CAPACITOR CH 50V	39P	1	
C1011		C. CAPACITOR CH 16V 0.1U	1			-			100	1	
C1012		C. CAPACITOR CH 10V 3.3P	1		C1251		ECUXICIOGVBP	C. CAPACITOR CH 16V	100		
C1013		C. CAPACITOR CH 25V 330P	1							_	
C1014	ECUX1E223KBV	C. CAPACITOR CH 25V 0. 023U	1		D1051.	52	MA729	DIODE		2	
C1015	ECST1AY106Z	T. CAPACITOR CH 10V 10U	1		D1061.	62	MA728	DIODE		2	
C1016-19	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	4		D1101		MA8120-L	DIODE		1	
C1021	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1		D1102		MA728	DIODE		1	
C1022		C. CAPACITOR CH 10V 3.3P	1		D1103		188355	DIODE		1	
C1023	-	C. CAPACITOR CH 25V 330P	-		D1151		MA8160-M	DIODE		1	
C1023		C. CAPACITOR CH 25V 0. 023U	_		D1152		1SS355	DIODE		1	
			1							_	
C1025			-				-			_	
		C. CAPACITOR CH 10V 1U	-		E01004		V 1022200001 4	CONNECTOR (FEMALE)		1	
C1031		C. CAPACITOR CH 16V 0.1U	1		FP1001		VJS3320B014	CONNECTOR (FEMALE)		⊢'	
C1032	-	C. CAPACITOR CH 10V 3.3P	1					10		-	
C1033	ECUX1E392KBQ	C. CAPACITOR CH 25V 3900P	1		I C1 001		BA9734AKV	IC		1	
C1034	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		101002	2	TA75S393F	10		1	
C1035	ECST1AY106Z	T. CAPACITOR CH 10V 10U	1		⚠ IP1001	1	VSF0233F31	FUSE		1	
C1036		C. CAPACITOR CH 10V 1U	1							_	
C1041		C. CAPACITOR CH 16V 0.1U	-		L1001		ELC5SB3R9M	COIL	3. 9UH	1	
C1042		C. CAPACITOR CH 10V 3. 3P	-		L1011		ELL6TR560	COIL	56UH	1	
		C. CAPACITOR CH 16V 0. 001U	-		L1012	_	VLQ0810M4R7		4. 7UH	1	
C1043			+		L1013		VLQ0779K100	COIL	1 OUH	1	-
C1045		T. CAPACITOR CH 10V 10U	-						100H	1	
C1046, 47	-	C. CAPACITOR CH 10V 1U	-		L1014	4-	VLQ0780K100	COIL		-	
C1 051		C. CAPACITOR CH 25V 1000P	1				VLQ0779K100	COIL	10UH	3	-
C1052	ECUX1E105KBM	C. CAPACITOR CH 25V 1U	1		L1021		ELL6TR150	COIL	15UH	1	
C1053	ECUX1E471KBQ	C. CAPACITOR CH 25V 470P	1		L1022		VLQ0810M4R7	COIL	4. 7UH	1	
C1055		C. CAPACITOR CH 16V 10U	1		L1023		VLQ0779M4R7	COIL	4. 7UH	1	
C1056		C. CAPACITOR CH 10V 1U	-		L1024		VLQ0779K100	COIL	1 OUH	1	
C1058		C. CAPACITOR CH 16V 10U	-			_					
		C. CAPACITOR CH 10V 3.3P	1				1				
C1 059	IECON I NO SOURM	TO. OAPAGITOR OF TOV 3. 3P	L.	l		_				_	

Part Name & DescriptionPcs

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0. 1U

ECUX1E152KBQ C. CAPACITOR CH 25V 1500P 1

ECUX1E332KBQ C. CAPACITOR CH 25V 3300P

ECUX1A335KBM C. CAPACITOR CH 10V 3. 3P

ECUX1C104KBV C. CAPACITOR CH 16V

Remarks

Ref. No.

C1061

C1062

C1071

Part No.

C1063, 64 ECUM1A225KBM C. CAPACITOR CH 10V

C1065, 66 ECUMIA105KBN C. CAPACITOR CH 10V

VEP01801C / VEP02561A

VLFUI	OUTU / V	EP02301A							
Ref. No.	Part No.	Part Name & Description	Pc	Remarks	Ref. No.	Part No.	Part Name & Description	rbe	s Remarks
L1025	VLQ0780K100		_		R1057	ERJ2RHD133	M. RESISTOR CH 2W 13K	_	1
L1026	VLQ0779K100		-		R1058	-		-	
			-			ERJ2RHD361	M. RESISTOR CH 2W 360	+	1
L1029	VLQ0779K100		-		R1059	ERJ2RHD272	M. RESISTOR CH 2W 2.7K		1
L1031	ELL6TR151	COIL 150UH	1		R1061, 62	ERJ2GEJ122	M. RESISTOR CH 2W 1.2K		2
L1032	VLQ0810M4R7	COIL 4. 7UH	1		R1070	ERJ3RED820	M. RESISTOR CH 3W 82		1
L1041	ELL6TR101M	COIL 100UH	1		R1071	ERJ6RBB272	M. RESISTOR CH 1/10W 2.7K		1
L1042	VLQ0810M4R7	COIL 4. 7UH	1		R1072	ERJ3RED820	M. RESISTOR CH 3W 82	+-	
L1043	VLQ0780K100	COIL 10UH	1					+	4
			-		R1073	ERJ3RBD221	M. RESISTOR CH 3W 220	+-	
	VLQ0779K331	COIL 330UH	2		R1074	ERJ6RBB272	M. RESISTOR CH 1/10W 2, 7K	1	1
L1054	VLQ0779K100	COIL 10UH	1		R1075	ERJ2GEJ331	M. RESISTOR CH 2W 330	1	1 [
L1061	ELL6TRD003	COIL 3UH	1		R1081	ERJ2GEJ472	M. RESISTOR CH 2W 4.7K	1	
L1062	ELL6TRD004	COIL 4UH	1	1	R1101	ERJ3RBD223	M. RESISTOR CH 3W 22K	1	
L1071	ELL6TR330	COIL 33UH	1		R1102		M. RESISTOR CH 1/10W 4.7K	-	
L1072	VLQ0810M4R7	COIL 4. 7UH	1					+	
11072	VEQUOTOM4K7	CO1E 4. 70H	-		R1103	ERJ2GEJ472	M. RESISTOR CH 2W 4.7K	+	
					R1104	ERJ2GEJ123	M. RESISTOR CH 2W 12K	1	
PP1001	VJP3884B080	CONNECTOR (MALE)	1		R1105	ERJ2GEJ563	M. RESISTOR CH 2W 56K	1	
					R1106	ERJ2GEJ273	M. RESISTOR CH 2W 27K	1	
Q1011	FP102	TRANSISTOR	1	F	R1107	ERJ2GEJ225	M. RESISTOR CH 2W 2.2M	1	
Q1021	FP102	TRANSISTOR	1		R1108		M. RESISTOR CH 2W 47K	+	
Q1022	2SK2151	TRANSISTOR	1					+	
Q1031							M. RESISTOR CH 2W 10K	1	
	FP102	TRANSISTOR	1				M. RESISTOR CH 2W 150	1	
Q1041	FP102	TRANSISTOR	1	F	R1112	ERJ2GEJ822	M. RESISTOR CH 2W 8.2K	1	
Q1042	2SK2151	TRANSISTOR	1	F	R1121	ERJ2GEJ151	M. RESISTOR CH 2W 150	1	
Q1051	2SA1731-R	TRANSISTOR	1	F	R1122		M. RESISTOR CH 2W 6.8K	1	
Q1052	2SB970X	TRANSISTOR	1				M. RESISTOR CH 2W 150	1	
	2SD2216	TRANSISTOR	1					⊢;	
			_				M. RESISTOR CH 2W 6.8K	1	
01054	XP1401	TRANSISTOR-RESISTOR	1				M. RESISTOR CH 2W 0	+	
	2SD2216	TRANSISTOR	1	F	R1141	ERJ2GEJ151	M. RESISTOR CH 2W 150	1	
Q1056	2SB1462-R	TRANSISTOR	1	F	R1142	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
01061, 62	FP102	TRANSISTOR	2	R	R1150	ERJ8GEYJ680	M. RESISTOR CH 1/8W 68	1	
Q1071	FP102	TRANSISTOR	1				M. RESISTOR CH 2W 150	1	
	2SB1462-R	TRANSISTOR	1					 '	
1	2001402 K	THOUGH CATCOL					M. RESISTOR CH 2W 4.7K	1	
004004	10101001		\dashv				M. RESISTOR CH 2W 12K	1	
	UN2130X	TRANSISTOR-RESISTOR	1	R	R1154	ERJ2RHD473	M. RESISTOR CH 2W 47K	_1	
QR1002	UN921F	TRANSISTOR-RESISTOR	1	R	R1155	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
QR1003	MRN1104	TRANSISTOR	1	R	R1156	ERJ2GEJ332	M. RESISTOR CH 2W 3, 3K	1	
QR1004	MRN2111	TRANSISTOR	1	P			M. RESISTOR CH 2W 2. 7K	1	
QR1055	MRN1104	TRANSISTOR	1					2	
	MRN1107		1				M. RESISTOR CH 2W 47K	-	
GRIIOI	MRN1107	TRANSISTOR	-4				M. RESISTOR CH 2W 150	1	
			_	R	R1172	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
R1001	ERJ2GEJ472	M. RESISTOR CH 2W 4.7K	1	R	R1253-55	ERJ2GEJ473	M. RESISTOR CH 2W 47K	3	
R1003, 04	ERJ2GEJ225	M. RESISTOR CH 2W 2.2M	2	R	R1256	ERJ2GEJ224	M. RESISTOR CH 2W 220K	1	
R1005	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	R	343001-04		M. RESISTOR CH 1/16W 100	4	
R1007	ERJ8GEYOROO	M. RESISTOR CH 1/8W 0	1				M. RESISTOR CH 1/16W 56K	7	
		M. RESISTOR CH 2W 47K	+					+	
			-11				M. RESISTOR CH 1/16W 8.2K	1	
		M. RESISTOR CH 1/8W 0	1	R	R43008-11	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	4	
R1010	ERJ3RED820	M. RESISTOR CH 3W 82	1						
R1011	ERJ6RBB682	M. RESISTOR CH 1/10W 6.8K	1	T	1001	VTP0499	TRANSFORMER	1	
R1012	ERJ3RED820	M. RESISTOR CH 3W 82	1					_	
			1					-	
			1					—	
			-+						
			1						
			1						
R1021	ERJ6RBB272	M. RESISTOR CH 1/10W 2.7K	1			VEP02561A	DRIVE P. C. BOARD	1	(RTL)
R1022	ERJ3RED820	M. RESISTOR CH 3W 82	1						
R1023			1					_	
			1		2201	ENIV1EGTOVOV	C CARACITOR OU OFF A ACTIV		
			\rightarrow				C. CAPACITOR CH 25V 0, 027U	1	
			1				C. CAPACITOR CH 10V 1U	1	
			1	C	2203 E	ECUX1H270JCQ	C. CAPACITOR CH 50V 27U	1	
R1031	ERJ6RBB272	M. RESISTOR CH 1/10W 2.7K	1		2204 E	ECUM1 A564KBN	C. CAPACITOR CH 10V 0. 56U	1	
R1032	ERJ3RED820	M. RESISTOR CH 3W 82	1	C			C. CAPACITOR CH 25V 3300P	1	
R1033	ERJ3RED220	M. RESISTOR CH 3W 22	1		-		C. CAPACITOR CH 10V 1U	1	
			1						
						-		1	
			1				C. CAPACITOR CH 25V 0, 023U	1	
			1	Cz	2210 E	ECUM1C473KBV	C. CAPACITOR CH 16V 0. 047U	1	
			1	C2	2211 E	ECSTOJY475Z	F. CAPACITOR CH6. 3V 4. 7U	1	
R1042	ERJ3RED820	M. RESISTOR CH 3W 82	1	C2	2212-14 E	CUX1C104ZFQ	C. CAPACITOR CH 16V 0. 01U	3	
R1043 E	ERJ3RBD301	M. RESISTOR CH 3W 300	1				C. CAPACITOR CH6. 3V 3. 3U	1	
	-		1						
			-				C. CAPACITOR CH 16V 0. 01U	3	
			1				C. CAPACITOR CH 16V 0. 001U	_1	
			1	C2	2225 E	ECUXOJ335KBN (C. CAPACITOR CH6. 3V 3. 3U	1	
R1052 E	RJ3RED820	M. RESISTOR CH 3W 82	1	C2	2226, 27 E	CUX1C103KBQ	C. CAPACITOR CH 16V 0. 001U	2	
R1053 E	RJ3RBD151	M. RESISTOR CH 3W 150	1				C. CAPACITOR CH6. 3V 3. 3U	1	
			1		_		C. CAPACITOR CH 25V 1000P	╗	
			†					-	
			+		2232 E	-COX O J 3 3 5 KBN C	C. CAPACITOR CH6. 3V 3. 3U	1	
			+					\perp	
								T	

VEP02561A / VEP03E52A

VEP02	561A / VI	EPU3E52A								
Dof No	Dont No	Part Name & Description	200	Remarks	Ref. No.	Part No.	Part Name & Descrip	ior	Pr	s Remarks
Ref. No.				Remarks				01U		
C2233		C. CAPACITOR CH 10V 1U	1					_	-	1
C2234		C. CAPACITOR CH 50V 100P	1		C614	-		010	-	
02235-37	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3		C615	ECUX1H181JCQ	C. CAPACITOR CH 50V 1	80P	1	
C2238, 39	ECUX0J335KBN	C. CAPACITOR CH6. 3V 3. 3U	2		C616	ECUX1H680JCQ	C. CAPACITOR CH 50V	68P	1	
C2240	ECUX1H150JC0	C. CAPACITOR CH 50V 15P	1		C617-19	ECUX1H560JCQ	C, CAPACITOR CH 50V	56P	3	
C2245	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P	1		C620-26	ECUX1C103KBQ	C. CAPACITOR CH 16V O.	01U	7	
C2246	ECUM1A564KBN	C. CAPACITOR CH 10V 0. 56U	1		C630-32	ECUMIA105KBN	C. CAPACITOR CH 10V	10	3	
		C. CAPACITOR CH 25V 1000P	3		C633	ECSTOJX476Z	T. CAPACITOR CH6. 3V	47U	1	
C2250		T. CAPACITOR CH6. 3V 47U	1		C634		C. CAPACITOR CH 10V	10	1	
		C. CAPACITOR CH 16V 0. 001U			C635-42			010	8	
C2251			1						-	
C2255-57	ECUX1C104ZFQ	C. CAPACITOR CH 16V 0. 01U	3		C643-45			010	3	
	-				C646	ECUX1C103KB0		01U	1	
FP2002	VJS3319B022	CONNECTOR (FEMALE)	1		C647	ECUX1H181JCQ	C. CAPACITOR CH 50V 1	BOP	1	
FP2003	VJS3319B009	CONNECTOR (FEMALE)	1		C648	ECUX1H680JCQ	C. CAPACITOR CH 50V	68P	1	
FP2004	VJS3320B030	CONNECTOR (FEMALE)	1		C649-51	ECUX1H560JCQ	C. CAPACITOR CH 50V	56P	3	
					C652-58	ECUX1C103KBQ	C. CAPACITOR CH 16V O.	01U	7	
102201	TB6519AF	IC	1				C. CAPACITOR CH 10V	1Ü	4	
		IC	2		C666			100	1	
102202, 03			_					_	-	
102204	TA75S393F	IC	1		C667			1 OM	1	
IC2205	TC75W54FU	IC	1		C668			1 OM	1	·
IC2206	TC7S86FU	10	1		C669	ECUX1C103KBQ	C. CAPACITOR CH 16V 0.	01U	1	
102207	BA6289F	IC	1		C671, 72	VCS0JJ106 I	E. CAPACITOR 6.3V	1 OM	2	
					C2001. 02	ECUX1H100CC0	C. CAPACITOR CH 50V	1 OP	2	
PS2001	VJ\$3989A050	CONNECTOR (FEMALE)	1					01U	3	
1 02001	, 3000007000	January Williams			02006			12P	1	
00001	0001400.5	TDANGLETOD	_					_	1	
Q2201	2SB1462~R	TRANSISTOR	1		C2007			010	-	
Q2202	2SD2216	TRANSISTOR	1		C2008	-		10	1	
					C2009	VCS0JJ106		1 OM	1	
R2201	ERJ2GEJ682	M. RESISTOR CH 2W 6.8K	1		C2010	ECUX1C103KB0	C. CAPACITOR CH 16V O.	01U	1	
R2202	ERJ2GEJ471	M. RESISTOR CH 2W 470	1		C2011	VCS0JJ106	E. CAPACITOR 6.3V	1 OM	1	
R2204	ERJ2GEJ224	M. RESISTOR CH 2W 220K	1		C2012	ECUX1C473KBV	C. CAPACITOR CH 16V 0.0	47U	1	
R2205		M. RESISTOR CH 2W 1K	1		C2013			01U	1	
R2207		M. RESISTOR CH 2W 560	÷		02014	-		010	1	
			-			+		_	1	
R2208		M. RESISTOR CH 1/8W 0.33	_'		C2015			1 OM	<u> </u>	-
R2209	ERJ8GEYJR47	M. RESISTOR CH 1/8W 0.47	1		C2016			10	1	
R2210, 11	ERJ2GEJ472	M. RESISTOR CH 2W 4.7K	2		C2017	VCS0JJ106	E. CAPACITOR 6.3V	1 OM	1	
R2212	ERJ8RQJR27	M. RESISTOR CH 1/8W 0.27	1		C2018	ECSTOJY475Z	T. CAPACITOR CH6. 3V 4	70	1	
R2213	ERJ2GEJ471	M. RESISTOR CH 2W 470	1		C2019	ECUX1C104KBV	C. CAPACITOR CH 16V 0	.10	1	
R2214		M. RESISTOR CH 2W 1K	1		C2020	ECUX1C103KBQ	C. CAPACITOR CH 16V O.	010	1	
		M. RESISTOR CH 2W 10K	2		C2021			10	1	1
			-					010	3	
R2220		M. RESISTOR CH 2W 100K	1						1-3	-
R2221		M. RESISTOR CH 2W 430	1		C2026			1 OM	-	
R2222, 23	ERJ2GEJ223	M. RESISTOR CH 2W 22K	2		C2027	ECUX1E102KBQ	C. CAPACITOR CH 25V 10	00P	1	
R2224	ERJ2GEJ182	M. RESISTOR CH 2W 1.8K	1		C2028	ECUX1C103KBQ	C. CAPACITOR CH 16V O.	010	_1	
R2225	ERJ2GEJ394	M. RESISTOR CH . 2W 390K	1		C2029	VCS0JJ108	E. CAPACITOR 6.3V	1 OM	1	
R2226	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1		C2030	ECUX1C103KBQ	C. CAPACITOR CH 16V O.	010	1	
R2227		M. RESISTOR CH 2W 2.2K	1		C2031, 32	ECUX1H221JCQ	C. CAPACITOR CH 50V 2	20P	2	
R2228	-	M. RESISTOR CH 2W 1M	1		C2033			10	1	
			-					20	1	
R2229		M. RESISTOR CH 2W 10K	-		02034				2	
R2231		M. RESISTOR CH 1/16W 100	1					10P	-	· · · · · · · · · · · · · · · · · · ·
R2232		M. RESISTOR CH 2W 470	_		C2037			33P	1	-
R2233	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1		C2038			15P	1	
R2234	ERJ2GEJ394	M. RESISTOR CH 2W 390K	1		C2040	ECUX1H120JCQ	C. CAPACITOR CH 50V	12P	1	
R2235	ERJ2GEJ104	M. RESISTOR CH 2W 100K	1		C2041	ECUX1C103KBQ	C. CAPACITOR CH 16V O.	01U	1	
R2236		M. RESISTOR CH 2W 27K	1		C2042	ECUX1C106VBP	C. CAPACITOR CH 16V	100	1	
R2237		M. RESISTOR CH 2W 2.2K	1		C2199		C. CAPACITOR CH 10V	10	1	
R2238	-	M. RESISTOR CH 2W 1.2K	1		C3002			1 OM	1	
112230	THOUGHT 122				C3002			15P	1	
D16551	Eventoures :	COURT B B	_						H	
RA2201		COMBI.R-R 330	1		C3004		C. CAPACITOR CH 16V O.		1	-
RA2203	EXBV4V102J	COMBI. R-R 1K	1				C. CAPACITOR CH 16V O.		5	
					C3010-13	ECUX1C103KBQ	C. CAPACITOR CH 16V O.	010	4	
		MISCELLANEOUS			C3015	ECUX1C103KBQ	C. CAPACITOR CH 16V O.	01U	1	
_					C3016	ECUX1A104KBQ	C. CAPACITOR CH 10V 0	10	1	
-	VMZ2689	INSULATION SHEET	1		C3017	-		OOP	1	
	TINLLUG	THOUSEN FOR SHEET	-		C3018	-		010	1	
			-						-	-
			_		. C3019			10	1	
					C3020			1 OP	1	
					C3021	ECUX1C104KBV	C. CAPACITOR CH 16V 0	. 10	1	
			_ 7		C3022	ECUX1C103KBQ	C. CAPACITOR CH 16V 0.	01U	1	
	VEP03E52A	VTR MAIN P. C. BOARD	1	(RTL)	C3023			22U	1	
			-		03024			010	1	
ļ								1 OM	H	
	F0070 P1777	T OUDLO TOD OUT THE	_		C3026			_	+-	1
C601			1		C3027		C. CAPACITOR CH 50V	5P	1 1	
C602	-	C. CAPACITOR CH 10V 1U	1		C3028			90P	1	
C603-10	ECUX1C103KBQ	C. CAPACITOR CH 16V 0. 01U	8		C3030	ECUX1C103KBQ	C. CAPACITOR CH 16V 0.	010	1	
			П							
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Dof No	Dont No	Part Name & DescriptionPc	Dama when	D. C. N.	Don't No	Dant Name & Daniel	h.	P1
Ref. No.			Remarks	Ref. No.	Part No.	Part Name & Descriptio	-	
C3035	ECUX1C103KBQ	C. CAPACITOR CH 16V 0.01U 1		C3817, 18	ECUX1C104ZFG	C. CAPACITOR CH 16V 0. 01U	1 2	!
C3036	ECUX1H100CCQ	C. CAPACITOR CH 50V 10P 1		C3820	ECUX1C104ZFG	C. CAPACITOR CH 16V 0. 01U	1	
C3037	ECHMI AT 05KBN	C. CAPACITOR CH 10V 1U 1		C3822	 	C, CAPACITOR CH 16V 0.01U	-	
					-		-	
		C. CAPACITOR CH 50V 100P 2			EEJK0JS108	E. CAPACITOR 6.3V 10M	-	
C3040, 41	ECUM1A105KBN	C. CAPACITOR CH 10V 1U 2	1	C3827	ECUX1C103KBQ	C. CAPACITOR CH 16V 0.01U	1	
C3042	ECUX1C103KBQ	C. CAPACITOR CH 18V 0.01U 1		C3901	ECSTOJC107Z	T. CAPACITOR CH6, 3V 100U	1	
_		C. CAPACITOR CH 16V 0.01U 6		C3902	1	C. CAPACITOR CH 16V 0.01U	+	
				-			-	
C3050, 51	ECUX1C104ZFQ	C. CAPACITOR CH 16V 0.01U 2		C4001	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3053, 54	ECUX1C104ZFQ	C. CAPACITOR CH 16V 0.01U 2		C4002	EEJKOJS106	E. CAPACITOR 6.3V 10M	1	
		C. CAPACITOR CH 16V 0.01U 4	•		VCS0JJ106	E. CAPACITOR 6.3V 10M	-	
						· · · · · · · · · · · · · · · · · · ·	-	
C3060	ECUX1H150JCQ	C. CAPACITOR CH 50V 15P 1		C4005, 06	ECUX1E152KBQ	C. CAPACITOR CH 25V 1500P	2	
C3061	ECUX1H120JCQ	C. CAPACITOR CH 50V 12P 1		C4007	ECSTOJX226Z	T. CAPACITOR CH6. 3V 22U	1	
C3065	ECUX1C1047EQ	C. CAPACITOR CH 16V 0.01U 1		C4011		C. CAPACITOR CH 16V 0.1U	1	
				-			-	
C3066	ECUX1C103KB0	C. CAPACITOR CH 16V 0.01U 1		C4012	VCS0JJ106	E. CAPACITOR 6.3V 10M	1	
C3067	ECSTOJX226Z	T. CAPACITOR CH6. 3V 22U 1		04013, 14	ECUX1H121JCQ	G. CAPACITOR CH 50V 120P	2	
03071 72	ECUX1C104ZEQ	C. CAPACITOR CH 16V 0.01U 2		C4015 18	VCS0JJ106	E. CAPACITOR 6.3V 10M	2	
							-	
03073-77	ECOX I C I O3KBQ	C. CAPACITOR CH 16V 0.01U 5		C4201, 02	ECUX1C333KBQ	C. CAPACITOR CH 16V 0. 033U	2	
C3078, 79	ECUX1H050CC0	C. CAPACITOR CH 50V 5P 2		C4203	VCS0JJ108	E. CAPACITOR 6.3V 10M	1	1
C3080	ECUY10104KBV	C. CAPACITOR CH 16V 0.1U 1		C4204	ECHV1C102KP0	C. CAPACITOR CH 16V 0.01U	1	
					1		<u> </u>	
C3081	-	C. CAPACITOR CH 16V 0, 01U 1		C4205	ECUX1E222KBQ	C. CAPACITOR CH 25V 2200P	1	
C3083, 84	ECSTOJX226Z	T. CAPACITOR CH6. 3V 22U 2		C4206	ECUX1C103KBQ	C. CAPACITOR CH 16V 0.01U	1	
C3086		C. CAPACITOR CH 16V 0. 01U 1		C4207		C. CAPACITOR CH 16V 0.01U	1	1
							1	
C3088		C. CAPACITOR CH 16V 0. 01U 1		C4208		C. CAPACITOR CH 25V 1200P	1	
C3089	EEJKOJS108	E. CAPACITOR 6.3V 10M 1		C4209, 10	ECUM1 C474KBN	C. CAPACITOR CH 16V 0.47U	2	
C3090	ECUX1C103KB0	C. CAPACITOR CH 16V 0.01U 1		C4211		C. CAPACITOR CH 25V 1200P	1	
-		***************************************					 	1
		T. CAPACITOR CH6. 3V 22U 1				T. CAPACITOR CH6. 3V 47U	2	****
C3092	ECUX1A105ZFV	C. CAPACITOR CH 10V 1U 1		C4214, 15	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C3094	ECUM1 A1 05KBN	C. CAPACITOR CH 10V 1U 1		C4218		E. CAPACITOR 6.3V 10M	1	
		C. CAPACITOR CH 10V 1U 1			-		-	
				C4219	ECUX 1CTO4KBV	C. CAPACITOR CH 16V 0.1U	1	
C3201, 02	ECUX1C103KBQ	C. CAPACITOR CH 16V 0.01U 2	1	C4501	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3203, 04	ECUX1C104ZFQ	C. CAPACITOR CH 16V 0, 01U 2		C4502	ECUX1C104ZEQ	C. CAPACITOR CH 16V 0.01U	1	
-							-	
		E. CAPACITOR 6.3V 10M 1		C4503-05	VCS0JJ106	E. CAPACITOR: 6.3V 10M	3	
C3206, 07	ECUX1C103KBQ	C. CAPACITOR CH 16V 0. 01U 2		C4506	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3208	ECUX1C104KBV	C. CAPACITOR CH 18V 0.1U 1		C4507	ECUMIA105KBN	C. CAPACITOR CH 10V 1U	1	
							-	
				C4508		C. CAPACITOR CH 25V 1000P	1	
C3212, 13	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U 2	1	C4509, 10	VCS0JJ106	E. CAPACITOR 6.3V 10M	2	
C3214	ECUX1C104ZFQ	C. CAPACITOR CH 16V 0. 01U 1		C4511	ECHMIA105KRN	C. CAPACITOR CH 10V 1U	ī	
							-	-
		E. CAPACITOR 6.3V 10M 1		C4512	ECUXTET 02KB0	C. CAPACITOR CH 25V 1000P	1	
C3216-18	ECUX1C103KB0	C. CAPACITOR CH 16V 0.01U 3		C4513, 14	VCS0JJ106	E. CAPACITOR 6.3V 10M	2	
C3219	FCUX1F273KBV	C. CAPACITOR CH 25V 0. 027U 1		C4515	ECUY1C103KB0	C. CAPACITOR CH 16V 0. 01U	1	
		C. CAPACITOR CH 16V 0.01U 3		C4701	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	_1	
C3223	ECUMI A105KBN	C. CAPACITOR CH 10V 1U 1		C4702	VCS0JJ106	E. CAPACITOR 6.3V 10M	1	
C3224	EEJKOJS108	E. CAPACITOR 6.3V 10M 1		C4704	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
		C. CAPACITOR CH 16V 0.01U 3					_	
				C4705		C. CAPACITOR CH 50V 0. 01U	1	
C3228	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U 1		C4706	ECUX1H153KBV	C. CAPACITOR CH 50V 0. 015U	1	
C3229	ECUX1E331KBQ	C. CAPACITOR CH 25V 330P 1		C4798, 99	ECUX1H153KBV	C. CAPACITOR CH 50V 0. 015U	2	
C3230	ECUX1C103KB0	C. CAPACITOR CH 16V 0.01U 1		C6501		C. CAPACITOR CH 16V 0.1U	1	
		C. CAPACITOR CH 25V 1500P 1		C6502, 03	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	2	
C3232-34	ECUX1C103KBQ	C. CAPACITOR CH 16V 0.01U 3		C6504	ECEV1CA101UP	E. CAPACITOR CH 16V 100U	1	
		C. CAPACITOR CH 25V 680P 1		C6507		C. CAPACITOR CH 16V 8200P	1	
		C. CAPACITOR CH 16V 0.01U 3		-3007			<u>'</u>	
C3239	EEJKOJS106	E. CAPACITOR 6.3V 10M 1		D2001-04	MA728	DIODE	4	
C3240	ECUX1C103KBQ	C. CAPACITOR CH 16V 0.01U 1		D2005	188355	DIODE	1	
		C. CAPACITOR CH 16V 0.01U 2					_	
				D2006		DIODE	1	
		C. CAPACITOR CH 16V 0.01U 3		D2007	1SS355	DIODE	1	
C3246	ECUX0J225KBN	C. CAPACITOR CH8. 3V 2. 2U 1		D2010	MA728	DIODE	1	
		C. CAPACITOR CH 16V 0.01U 6				DIODE	1	
			I				_	
		E. CAPACITOR 6.3V 10M 1		D2012	MA132WA	DIODE	-1	
C3254, 55	ECUX1C104ZFQ	C. CAPACITOR CH 16V 0.01U 2		D2013	MA728	DIODE	1	
		C. CAPACITOR CH 16V 0.01U 1		D2015-18		DIODE	4	
		E. CAPACITOR 6.3V 10M 1		D2020-22	MA728	DIODE	3	
C3258	ECSTOJX476Z	T. CAPACITOR CH6, 3V 47U 1		D2023	188355	DIODE	1	
		C. CAPACITOR CH 16V 0.01U 1		D2024, 25		DIODE	2	
							۷.	
		C. CAPACITOR CH 16V 0.01U 1		D3201		DIODE	1	
C3262	ECUX1C103KBQ	C. CAPACITOR CH 16V 0.01U 1		D3202	MA728	DIODE	1	
C3264	EEJKOJS106	E. CAPACITOR 6.3V 10M 1		-		DIODE	1	
							<u>-</u>	
		C. CAPACITOR CH 50V 22P 1				DIODE	1	
C3802-04	ECUX1C104ZFQ	C. CAPACITOR CH 16V 0.01U 3		D6501-04	MA132WA	DIODE	4	i
C3806	ECUX1E102KB0	C. CAPACITOR CH 25V 1000P 1		D8505	MA132A	DIODE	1	
		C. CAPACITOR CH 10V 1U 1		06506	MA132WA	DIODE	1	
C3808	ECUX1E271KBQ	C. CAPACITOR CH 25V 270P 1					٦	
C3809	ECUX1E102KB0	C. CAPACITOR CH 25V 1000P 1		FP3201	VJS3320B024	CONNECTOR (FEMALE)	1	
		C. CAPACITOR CH 10V 0.1U 1				CONNECTOR (FEMALE)	1	
C3814	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P 1		FP6001	VJS3319B014	CONNECTOR (FEMALE)	1	
C3816 I	ECUX1E102KB0	C. CAPACITOR CH 25V 1000P 1				CONNECTOR (FEMALE)	1	
		1000		110002	,5555186010	OURILLOTON GEMALE)	_'	
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Ref. No.	Part No.	Part Name & DescriptionP	cs	Remarks	Ref. No.	Part No.	Part Name & Descri	ptionP	cs	Remarks
KCI. NO.	Tax v ito.	dividuo a pastipatan								
10601, 02	IR3Y35M	IC	2		PP2001	VJP3989A050	CONNECTOR (MALE)		1	
, ,	NJM78L12UA	IC	1			VJP3884B060	CONNECTOR (MALE)	$\neg \neg$	1	
		10	1		PP3002	VJP3989A070	CONNECTOR (MALE)		1	
	PQ20VZ1U	10	1							
		10	1		PS1001	VJS3846A080	CONNECTOR (FEMALE)		1	
		10	1		PS3001	VJS3846A030	CONNECTOR (FEMALE)	\neg	1	
	M31020MA107 S3511AEFS	IC	1		PS3002	VJS3846A080	CONNECTOR (FEMALE)		1	
			1		100002	70000-10/1000	00.00207000 00.0020			
	UPD6462GS626		1		0601-06	2SB970X	TRANSISTOR		6	
		IC .	1		9608	2SB970X	TRANSISTOR		1	
		IC .	1		Q609-11	2SD2216	TRANSISTOR	-	3	
	M62370GP	IC .	1		Q2001	2SB970X	TRANSISTOR	-	1	
		10			Q2002	2SB1218	TRANSISTOR	- +	1	
	TA75S393F	IC	1		02002	2SD1820	TRANSISTOR		1	
	S81238SGQ8	IC	1		Q2008	2SD2216	TRANSISTOR		i	
	XC61AN2901M	IC .	1			XP6501	TRANSISTOR-RESISTOR		1	
	D784037GK510		1		Q2008		TRANSISTOR		2	
	TC4W53FU	10	1		Q3001, 02	2SD2216			1	
	MM1320ENRE	10	1		Q3201	2SD2216	TRANSISTOR	-+	1	
1C2014, 15		10	2		Q3202	2SB1462-R	TRANSISTOR	-+	1	
	T9P74EF	10	1		Q3203	2504627	TRANSISTOR	-+	1	
	MN47V07AF	IC	1		Q3204	2SD2218	TRANSISTOR	-	_	
	MN67373	IC	1		Q4001	XN4504	TRANSISTOR-RESISTOR	-	1	
	BA7653AF	10	1		Q4701	2SD1979	TRANSISTOR		1	
	BH7086KV	IC .	1		Q4702	XP4401	TRANSISTOR-RESISTOR		1	
	NJM2538VT	10	1				TRUMP 10707		_	
	LZ9FC144	10	1		QR601	MRN1103	TRANSISTOR		1	
	M65500FP	10	1		QR602	MRN1104	TRANSISTOR		1	
	MNV4260	IC	1			MRN1103	TRANSISTOR		3	
103203	AN3741FAP	IC	1		QR607	XP4314	TRANSISTOR-RESISTOR		1	
103204	AD9057BRS	IC	1		QR2001	MRN2111	TRANSISTOR		1	
103205	TC7SH08FU	IC	1		QR2002, 03		TRANSISTOR-RESISTOR		2	
103801	TSB13LV01AGB	IC	1		QR2004	MRN2111	TRANSISTOR		1	
1 C4001	NJM3414AVT	10	1		QR2005	UN2130X	TRANSISTOR-RESISTOR		1	
I C4201	BA7785FS	10	1		QR2006	MRN2111	TRANSISTOR	\rightarrow	1	
I C4501	AK4513-VQ	10	1		QR2007	MRN1104	TRANSISTOR		1	
I C4701	M9802-206GAK	IC	1		QR2008	XP1213	TRANSISTOR-RESISTOR		1	
106501-03	TC7W241FU	10	3		QR2009, 10	MRN2111	TRANSISTOR		2	
108505, 06	TC7SH08FU	IC	2		QR2011	MRN1104	TRANSISTOR		1	
					QR2012, 13	MRN1103	TRANSISTOR		2	
JK3801	VJJ0568	DV JACK	1		QR3001	MRN1103	TRANSISTOR		1	
					QR4001	MRN1103	TRANSISTOR		1	
L601-03	VL00807K100	COIL 10UH	3		QR4002, 03	MRN2103	TRANSISTOR		2	
L605	VLQ0807K100	COIL 10UH	1		QR4201	MRN1103	TRANSISTOR		1	
L606, 07	VLQ0807K220	COIL 22UH	2		QR4703	XP4312	TRANSISTOR-RESISTOR		1	
L2001	VLQ0807K100	COIL 10UH	1							
L2002	VLQ0426J330	COIL 33UH	1		R507-12	ERJ2GEJ102	M. RESISTOR CH 2W	1K	6	
L2003	VLQ0807K100	COIL 10UH	1		R513	ERJ2GEOROO	M. RESISTOR CH 2W	0	1	
L3002	VLQ0426J5R6	COIL 5. 6UH	1		R521	ERJ2GEJ223	M. RESISTOR CH 2W	22K	1	
L3003, 04	VLQ0807K100	COIL 10UH	2		R522	ERJ2GEJ273	M. RESISTOR CH 2W	27K	1	
L3005	VLQ0807K220	COIL 22UH	1		R523	ERJ2GEJ223	M. RESISTOR CH 2W	22K	1	
L3006	VLQ0807K100	COIL 10UH	1		R524	ERJ2GEJ332	M. RESISTOR CH 2W	3, 3K	1	
L3008	VLQ0807K100	COIL 10UH	1		R525	ERJ2GEJ223	M. RESISTOR CH 2W	22K	1	
L3009	VLQ0426J100	COIL 10UH	1		R526	ERJ2GEJ153	M. RESISTOR CH 2W	15K	1	
L3010, 11	VLQ0807K100	COIL 10UH	2		R527-32	ERJ2GEJ473	M. RESISTOR CH 2W	47K	6	
L3201	VLQ0807K100	COIL 10UH	1		R600, 01	ERJ2GEJ102	M. RESISTOR CH 2W	1K	2	
L3202	VLQ0807M4R7	COIL 4. 7UH	1		R602, 03	ERJ2RHD102	M. RESISTOR CH 2W	1K	2	
L3203-07	VLQ0807K100	COIL 10UH	5		R604	ERJ2RHD272	M. RESISTOR CH 2W	2. 7K	1	
L3208	VLQ0807K220	COIL 22UH	1		R605	ERJ2GEJ102	M. RESISTOR CH 2W	1K	1	
L3209	VLQ0807M4R7	COIL 4. 7UH	1		R606	ERJ2GEJ223	M. RESISTOR CH 2W	22K	1	
L3801-03	VLQ0807K100	COIL 10UH	3		R607	ERJ2GEJ222	M. RESISTOR CH 2W	2. 2K	1	
L3901	VLQ0807K220	COIL 22UH	1		R608	ERJ2GEJ273	M. RESISTOR CH 2W	27K	1	
L4001	VLQ0807K100	COIL 10UH	1		R609, 10	ERJ2GEJ223	M. RESISTOR CH 2W	22K	2	
L4201	VLQ0807K100	COIL 10UH	1		R611	ERJ2GEJ393	M. RESISTOR CH 2W	39K	1	
L4202	VLQ0464K100	COIL 10UH	1		R612	ERJ2GEJ223	M. RESISTOR CH 2W	22K	1	
L4502	VLQ0807K100	COIL 10UH	1		R613	ERJ2GEJ222	M. RESISTOR CH 2W	2. 2K	1	
L6501	VLQ0807K100	COIL 10UH	1		R614, 15	ERJ2GEJ102	M. RESISTOR CH 2W	1K	2	
L6502	VL00807K220	COIL 22UH	1		R618	ERJ2GEJ103	M. RESISTOR CH 2W	1 0K	1	
					R617	ERJ2GEJ562	M. RESISTOR CH 2W	5, 6K	1	
LB3001-03	VLP0145	COIL	3		R619	ERJ2GEJ332	M. RESISTOR CH 2W	3.3K	1	
LB3004	VLP0155	COIL	1		R621	ERJ2GEJ223	M. RESISTOR CH 2W	22K	1	
	VLP0329A601	COIL 800UH	2		R622	ERJ2GEJ332	M. RESISTOR CH 2W	3. 3K	1	
LB3005, 06	VLP0329A241	COIL 240UH	1		R623	ERJ2GEJ223	M. RESISTOR CH 2W	22K	_1	
LB3005, 06	VLFU328A241				0404	ERJ2GEOROO	M. RESISTOR CH 2W	0	1	
	VLFU328A241				R624	LKOZGLOKOO	M. RESISTOR OF ZI			
	VJP3172D002	CONNECTOR (MALE)	1		R624 R625	ERJ2GEJ562	M. RESISTOR CH 2W	5. 6K	1	
LB3007		CONNECTOR (MALE)	1						1	
LB3007		CONNECTOR (MALE)	1						1	

VEP03	EDZA								
Ref. No.	Part No.	Part Name & Description	cs Remarks	Ref. No.	Part No.	Part Name & Desc	rintio	PC	Remarks
	ERJ2GEJ223		1 Remarks	R2052	ERJ2GEOROO				Remarks
R626			!					-	
R629	ERJ2GEJ223	M. RESISTOR CH 2W 22K	1	R2053	ERJ2GEJ331	M. RESISTOR CH 21		+-	
R631	ERJ2GEOROO	M. RESISTOR CH 2W 0	1	R2054	ERJ2GEJ822	M. RESISTOR CH 21	8, 2K	1	
R634	ERJ2GEJ183	M. RESISTOR CH 2W 18K	1	R2055, 56	ERJ2GEJ473	M. RESISTOR CH 21	# 47K	2	
R635-37	ERJ2GEJ223	M. RESISTOR CH 2W 22K	3	R2057	ERJ2GEJ822	M. RESISTOR CH 2)	N 8.2K	1	
R638	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1	R2058	ERJ2GEJ102	M. RESISTOR CH 2	W 1K	1	
R639	ERJ2GEJ333	M. RESISTOR CH 2W 33K		R2059	ERJ2GEJ473	M. RESISTOR CH 21		1	
			-					+;	
R640	ERJ2GEOROO	M. RESISTOR CH 2W 0	1	R2060	ERJ2RHD273	M. RESISTOR CH 2		1	
R642	ERJ2GEOROQ	M. RESISTOR CH 2W 0	1	R2061	ERJ2RHD103	M. RESISTOR CH 29	1 10K	1	
R644-46	ERJ2GEJ223	M. RESISTOR CH 2W 22K	3	R2062, 63	ERJ2RHD473	M. RESISTOR CH 29	47K	2	
R647	ERJ2GE0R00	M. RESISTOR CH 2W 0	1	R2064	ERJ2RHD273	M. RESISTOR CH 2	¥ 27K	1	
R648-50	ERJ2GEJ101	M. RESISTOR CH 2W 100	3	R2065	ERJ2RHD103	M. RESISTOR CH. 29	¥ 10K	1	
	ERJ2GEJ683	M. RESISTOR CH 2W 68K	2	R2066	ERJ2GEJ473	M. RESISTOR CH 29		1	
R651, 52								÷	
R653	ERJ2GEOROO	M. RESISTOR CH 2W 0	1	R2067, 68	ERJ2GEJ101	M. RESISTOR CH 2		2	
R656-58	ERJ2GEJ102	M. RESISTOR CH 2W 1K	3	R2069	ERJ2GEJ105	M. RESISTOR CH 29	V 1M	1	·
R659	ERJ2GEJ562	M. RESISTOR CH 2W 5. 6K	1	R2070	ERJ2GEJ273	M. RESISTOR CH 29	¥ 27K	1	
R661	ERJ2GEJ472	M. RESISTOR CH 2W 4.7K	1	R2072	ERJ2GEJ473	M. RESISTOR CH 29	V 47K	1	
R663	ERJ2GEJ472	M. RESISTOR CH 2W 4.7K	1		ERJ2GEJ103	M. RESISTOR CH 29		2	
								-	
R664	ERJ2RHD821	M. RESISTOR CH 2W 820	1		ERJ2GEJ272	M. RESISTOR CH 2		2	
R665	ERJ2RHD223	M. RESISTOR CH 2W 22K	1	R2078, 79	ERJ2GEJ103	M. RESISTOR CH 2		2	
R666	ERJ2GE0R00	M. RESISTOR CH 2W 0	1	R2080	ERJ2RHD563	M. RESISTOR CH 2V	V 56K	1	
R667		M. RESISTOR CH 2W 4.7K	1	R2081	ERJ2GEJ122	M. RESISTOR CH 2V	1.2K	1	
R673		M. RESISTOR CH 2W 0	1	R2082	ERJ2GEJ222	M. RESISTOR CH 29		1	
			 					-	
R674	ERJ2GEJ223	M. RESISTOR CH 2W 22K	:	R2083	ERJ2GEOROO	M. RESISTOR CH 29		-	
	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	R2085	ERJ2GEJ122	M. RESISTOR CH 2V			
R680	ERJ2GEJ223	M. RESISTOR CH 2W 22K	1	R2087	ERJ2GEJ103	M. RESISTOR CH 29	1 0K	1	
R681	ERJ2GEOROO	M. RESISTOR CH 2W 0	1	R2088	ERJ2GEJ473	M. RESISTOR CH 29	47K	1	
R682		M. RESISTOR CH 2W 33K	1	R2089	ERJ2GEJ122	M. RESISTOR CH 2V		1	
			<u> </u>					<u> </u>	
R683	ERJ2GEOROO	M. RESISTOR CH 2W 0	 	R2090, 91	ERJ2GEJ473	M. RESISTOR CH 2		2	
R685	ERJ2GE0R00	M. RESISTOR CH 2W 0	1	R2092	ERJ2GEJ223	M. RESISTOR CH 2V	22K	<u> </u>	
R690	ERJ2GEOROO	M. RESISTOR CH 2W 0	1	R2093	ERJ2GEJ102	M. RESISTOR CH 28	Y 1K	1	
R691-93	ERJ2GEJ101	M. RESISTOR CH 2W 100	3	R2095	ERJ2GEOROO	M. RESISTOR CH 29	v 0	1	
	ERJ2GEJ683	M. RESISTOR CH 2W 68K	2	R2096	ERJ2GEJ102	M. RESISTOR CH 28		1	
			4					H	
	ERJ2GEOROO	M. RESISTOR CH 2W 0	1	R2097	ERJ2GEOROO	M. RESISTOR CH 2W		1	
R697-99	ERJ2GEJ102	M. RESISTOR CH 2W 1K	3	R2098-04	ERJ2GEJ473	M. RESISTOR CH 2W	47K	7	
R2002	ERJ2GEJ105	M. RESISTOR CH 2W 1M	1	R2106	ERJ2GEJ473	M. RESISTOR CH 2W	47K	1	
R2003	ERJ2GEJ22	M. RESISTOR CH 2W 200	1	R2107	ERJ2GEJ103	M. RESISTOR CH 29	1 10K	1	·
		M. RESISTOR CH 2W 1K	2	R2108	ERJ2GEJ101	M. RESISTOR CH 2W		1	
								+	
	ERJ2GEJ103	M. RESISTOR CH 2W 10K	2	R2109	ERJ2GEJ473	M. RESISTOR CH 2W		_'	
R2008	ERJ2GEJ104	M. RESISTOR CH 2W 100K	1	R2110	ERJ2GEJ101	M. RESISTOR CH 2W	100	1	
R2009	ERJ2GEJ394	M. RESISTOR CH 2W 390K	1	R2113	ERJ2GEJ562	M. RESISTOR CH 2W	5. 6K	1	
R2011	ERJ2GEJ563	M. RESISTOR CH 2W 56K	1	R2114, 15	ERJ2GEJ101	M. RESISTOR CH 2W	1 100	2	
	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1	R2116	ERJ2GEJ562	M. RESISTOR CH 2W		1	
								-	
	ERJ2GEJ684	M. RESISTOR CH 2W 680K	1	R2117	ERJ2GEJ392	M. RESISTOR CH 2W		1	
R2014	ERJ2GEJ474	M. RESISTOR CH 2W 470K	1	R2118	ERJ2GEJ472	M. RESISTOR CH 2W	4.7K	1	
R2015	ERJ2GEJ473	M. RESISTOR CH 2W 47K	1	R2119	ERJ2GEJ272	M. RESISTOR CH 2W	2. 7K	1	
R2016	ERJ2GEJ563	M. RESISTOR CH 2W 56K	1	R2121	ERJ2GEJ333	M. RESISTOR CH 2W	33K	1	
R2017, 18	ERJ2GEJ473	M. RESISTOR CH 2W 47K	2	R2122	ERJ2GEJ223	M. RESISTOR CH 2W	22K	1	
1		M. RESISTOR CH 2W 100K	-	R2123				1	
-								$\overline{}$	
			1			M. RESISTOR CH 2W		2	
R2022	ERJ2GEJ332	M. RESISTOR CH 2W 3.3K	1	R2126		M. RESISTOR CH 24	100K	-	
R2023	ERJ2GEJ393	M. RESISTOR CH 2W 39K	1	R2127	ERJ2GEJ473	M. RESISTOR CH 2W	47K	1	
R2024	ERJ2GEJ223	M. RESISTOR CH 2W 22K	1	R2128		M. RESISTOR CH 2W	i 1K	1	
			1	R2129		M. RESISTOR CH 2W		1	
			1	R2130					
			+					_	
			1	R2133		M. RESISTOR CH 2W		1	
R2028	ERJ2GEJ681	M. RESISTOR CH 2W 680	1	R2134	ERJ2GEJ223	M. RESISTOR CH 2W	22K	1	
R2029	ERJ2GEJ473	M. RESISTOR CH 2W 47K	1	R2135	ERJ2GEJ562	M. RESISTOR CH 2W	5. 6K	1	
		M. RESISTOR CH 2W 1K	1	R2136-38		M. RESISTOR CH 2W		3	
		M. RESISTOR CH 2W 100K	1	R2139		M. RESISTOR CH 2W		1	
			1	-				<u> </u>	
		M. RESISTOR CH 2W 12K	1	_	ERJ2GEJ103	M. RESISTOR CH 2W		1	
		M. RESISTOR CH 2W 18K	1		ERJ2GEJ473	M. RESISTOR CH 2W		2	
R2036	ERJ2GEJ331	M. RESISTOR CH 2W 330	1	R2143	ERJ2GE0R00	M. RESISTOR CH 2W	0	1	
R2037	ERJ2RHD223	M. RESISTOR CH 2W 22K	1	R2199	ERJ2GEJ104	M. RESISTOR CH 2W	100K	1	
			1		ERJ2GEOROO	M. RESISTOR CH 2W		2	
			1		ERJ2GEJ102	M. RESISTOR CH 2W		2	
								-	
			1	R3005	ERJ2GEOROO	M. RESISTOR CH 2W		1	
R2041			1	R3006	ERJ2GEJ104	M. RESISTOR CH 2W	100K	1	
R2042	ERJ2GEJ101	M. RESISTOR CH 2W 100	1	R3008	ERJ2GEJ102	M. RESISTOR CH 2W	1 K	1	
			2		ERJ2GEOROO	M. RESISTOR CH 2W		1	
			-					-	
		M. RESISTOR CH 2W 330			ERJ2GEJ102	M. RESISTOR CH 2W		1	
R2046	ERJ2GE0R00	M. RESISTOR CH 2W 0	1	R3011, 12	ERJ2GEJ223	M. RESISTOR CH 2W	22K	2	
R2047	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1	R3013	ERJ2GEJ102	M. RESISTOR CH 2W	1K	1	
		M. RESISTOR CH 2W 47K	1	R3014	ERJ2GEOROO	M. RESISTOR CH 2W	0	1	
			2	R3016	ERJ2GEJ101	M. RESISTOR CH 2W		H	
1,2040,00				1.0010	LINDEGEOTOT	m. NEOTOTOR OII 21	100	Н	
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VEP03	E52A							
Dof No	Part No.	Part Name & DescriptionPcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pre	Remarks
Ref. No.			Remarks		ERJ2GEJ104	M. RESISTOR CH 2W 100K	1	Remarks
R3017-19		M. RESISTOR CH 2W 10K 3		R3242			ı.	
R3020	ERJ2GEJ102	M. RESISTOR CH 2W 1K 1		R3243-45	ERJ2GEJ392	M. RESISTOR CH 2W 3.9K	3	
R3022	ERJ2GEJ121	M. RESISTOR CH 2W 120 1		R3247	ERJ2GEJ152	M. RESISTOR CH 2W 1.5K	1	
R3023	ERJ2GEJ682	M. RESISTOR CH 2W 6.8K 1		R3248	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
R3024	ERJ2GEJ332	M. RESISTOR CH 2W 3.3K 1		R3249	ERJ2GEJ223	M. RESISTOR CH 2W 22K	1	
R3027	ERJ2GEJ223	M. RESISTOR CH 2W 22K 1		R3251	ERJ2GEJ473	M. RESISTOR CH 2W 47K	1	
R3028	ERJ2GEJ183	M. RESISTOR CH 2W 18K 1		R3252	ERJ2RHD391	M. RESISTOR CH 2W 390	1	
R3030	ERJ2GEJ123	M. RESISTOR CH 2W 12K 1		R3254	ERJ2GEOROO	M. RESISTOR CH 2W 0	1	
R3031	ERJ2GEJ153	M. RESISTOR CH 2W 15K 1		R3255	ERJ2GEJ683	M. RESISTOR CH 2W 68K	1	
R3032	ERJ2GEJ123	M. RESISTOR CH 2W 12K 1		R3801	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
		M. RESISTOR CH 2W 15K 1		R3803	ERJ2GEOROO	M. RESISTOR CH 2W 0	1	
R3033	ERJ2GEJ153					M. RESISTOR CH 2W 10K	1	
R3034	ERJ2GEJ102	M. RESISTOR CH 2W 1K 1		R3804	ERJ2GEJ103		1	
R3035	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0 1		R3805	ERJ2GEJ472		ı.	
R3036	ERJ2GEJ225	M. RESISTOR CH 2W 2.2M 1		R3806	ERJ2GEJ394	M. RESISTOR CH 2W 390K	1	
R3037	ERJ2GEJ103	M. RESISTOR CH 2W 10K 1		R3807	ERJ2RHD272	M. RESISTOR CH 2W 2.7K	1	
R3038, 39	ERJ2GEJ105	M. RESISTOR CH 2W 1M 2		R3809	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
R3041	ERJ2GEJ151	M. RESISTOR CH 2W 150 1		R3811-14	ERJ2RKD560	M. RESISTOR CH 2W 56	4	
R3042	ERJ2GEJ105	M. RESISTOR CH 2W 1M 1		R3815	ERJ2RHD332	M. RESISTOR CH 2W 3.3K	1	
R3044	ERJ2GEJ221	M. RESISTOR CH 2W 220 1		R3816	ERJ2GEJ391	M. RESISTOR CH 2W 390	1	
R3046	ERJ2GE0R00	M. RESISTOR CH 2W 0 1		R3834	ERJ2GEJ103	M. RESISTOR CH 2W 10K	. 1	
R3048, 49	ERJ2GEJ221	M. RESISTOR CH 2W 220 2			ERJ2GEJ103	M. RESISTOR CH 2W 10K	2	
R3050, 161	ERJ2GEJ471	M. RESISTOR CH 2W 470 2		R3844	ERJ2GEJ104	M. RESISTOR CH 2W 100K	1	
R3052	ERJ2GEJ105	M. RESISTOR CH 2W 1M 1		R3845	ERJ2GEJ270	M. RESISTOR CH 2W 27	1	
					ERJ2RHD273	M. RESISTOR CH 2W 27K	2	
R3053	ERJ2GEOROO						2	
R3054	ERJ2GEJ105	M. RESISTOR CH 2W 1M 1			ERJ2RHD822			
	ERJ2GEOROO	M. RESISTOR CH 2W 0 2			ERJ2RHD103	M. RESISTOR CH 2W 10K	2	
R3057	ERJ2GEJ224	M. RESISTOR CH 2W 220K 1			ERJ2RHD223	M. RESISTOR CH 2W 22K	2	
R3058	ERJ2GEJ103	M. RESISTOR CH 2W 10K 1			ERJ2GEJ273	M. RESISTOR CH 2W 27K	2	
R3059	ERJ2GEJ680	M. RESISTOR CH 2W 68 1		R4017. 18	ERJ2GEJ101	M. RESISTOR CH 2W 100	2	
R3060	ERJ2GEJ271	M. RESISTOR CH 2W 270 1		R4021	ER32GEJ124	M. RESISTOR CH 2W 120K	1	
R3061	ERJ2GEOROO	M. RESISTOR CH 2W 0 1		R4022	ERJ2GEJ681	M. RESISTOR CH 2W 680	1	
R3062	ERJ2GEJ103	M. RESISTOR CH 2W 10K 1		R4201, 02	ERJ2GEJ682	M. RESISTOR CH 2W 6.8K	2	
R3075	ERJ2GEJ103	M. RESISTOR CH 2W 10K 1		R4203, 04	ERJ2GEJ103	M. RESISTOR CH 2W 10K	2	
R3076	ERJ2GEJ104	M. RESISTOR CH 2W 100K 1		R4205	ERJ2GEOROO	M. RESISTOR CH 2W 0	1	
R3078	ERJ2GEJ223	M. RESISTOR CH 2W 22K 1		R4211	ERJ2GEJ473	M. RESISTOR CH 2W 47K	1	
R3079	ERJ2GEJ101	M. RESISTOR CH 2W 100 1		R4501	ERJ2GEJ100	M. RESISTOR CH 2W 10	1	
R3083	ERJ2GEJ121	M. RESISTOR CH 2W 120 1		R4502, 03	ERJ2RHD471	M. RESISTOR CH 2W 470	2	
	-			R4504	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1	
R3085	ERJ2GEJ121				ERJ2GEOROO	M. RESISTOR CH 2W 0	2	
R3086	ERJ2GEJ682	M. RESISTOR CH 2W 6.8K 1		R4506, 07			1	
R3090, 91	ERJ2GEJ392	M. RESISTOR CH 2W 3. 9K 2		R4701	ERJ2GEJ154		1	
R3094	ERJ2GEJ391	M. RESISTOR CH 2W 390 1		R4702	ERJ2RHD223	M. RESISTOR CH 2W 22K	-	
R3203	ERJ2GEJ562	M. RESISTOR CH 2W 5.6K 1		R4704	ERJ2GEJ392	M. RESISTOR CH 2W 3.9K	1	
R3204	ERJ2GEJ102	M. RESISTOR CH 2W 1K 1		R4705	ERJ2GEJ331	M. RESISTOR CH 2W 330	1	
R3205	ERJ2RHD222	M. RESISTOR CH 2W 2.2M 1		R4707	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1	
R3206, 07	ERJ2GEJ121	M. RESISTOR CH 2W 120 2		R4708	ERJ2GEJ223	M. RESISTOR CH 2W 22K	1	
R3208	ERJ2GEJ822	M. RESISTOR CH 2W 8.2K 1		R4709	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1	
R3209	ERJ2GEJ562	M. RESISTOR CH 2W 5. 6K 1		R4710	ERJ2GEJ223	M. RESISTOR CH 2W 22K	1	
R3210	ERJ2GEJ561	M. RESISTOR CH 2W 560 1		R4711, 12	ERJ2GEJ182	M. RESISTOR CH 2W 1.8K	2	
R3211	ERJ2GEJ680	M. RESISTOR CH 2W 68 1		R4798	ERJ2GEJ154	M. RESISTOR CH 2W 150K	- 1	
R3212	ERJ2GE0R00	M. RESISTOR CH 2W 0 1		R4799	ERJ2GEJ563	M. RESISTOR CH 2W 56K	1	
R3213	ERJ2GEJ682	M. RESISTOR CH 2W 6. BK 1		R6503		M. RESISTOR CH 1/8W 0	1	
R3214	ERJ2GEJ102	M. RESISTOR CH 2W 1K 1		R6504	ERJ2GE0R00	M. RESISTOR CH 2W 0	1	
R3215	ERJ2GEJ392	M. RESISTOR CH 2W 3.9K 1			ERJ2GEJ472	M. RESISTOR CH 2W 4.7K	2	
R3217	ERJ2RHD181	M. RESISTOR CH 2W 180 1		R6510	ERJ2GEOROO	M. RESISTOR CH 2W 0	1	
R3217	ERJ2RHD301	M. RESISTOR CH 2W 300 1		R6515	ERJ2GEJ472	M. RESISTOR CH 2W 4.7K	_	
				1,0010	LINOLULU-1/2	m. HEOTOTOR OIL ZII 4. /K	Η.	
R3219	ERJ2GEOROO			DARROSS	EVEROVIAGE	COMB1. R-R 1K	1	
R3220	ERJ2GEJ221	M. RESISTOR CH 2W 220 1		RA2001	EXB28V102J		-	
R3221	ERJ2RHD222	M. RESISTOR CH 2W 2.2M 1		RA2002	EXB24V102J	COMBI. R-R 1K	1	
R3222	ERJ2GEJ152	M. RESISTOR CH 2W 1.5K 1		RA2003	EXB28V473J	COMB1. R-R 47K	1	
R3223	ERJ2GEJ124	M. RESISTOR CH 2W 120K 1			EXB28V103J	COMB1. R-R 10K	4	
R3224	ERJ2GEJ562	M. RESISTOR CH 2W 5.6K 1		RA2011	EXB24V102J	COMBI. R-R 1K	1	
R3225	ERJ2GEJ101	M. RESISTOR CH 2W 100 1		RA2012	EXB28V473J	COMBI. R-R 47K	1	
R3226	ERJ2GEJ391	M. RESISTOR CH 2W 390 1		RA2013	EXB24V331J	COMBI. R-R 330	1	
R3227, 28	ERJ2GEJ224	M. RESISTOR CH 2W 220K 2		RA2014	EXB24V271J	COMB1, R-R 270	1	
R3229		M. RESISTOR CH 1/16W 0 1		RA2016	EXB24V102J	COMBI. R-R 1K	_ 1	
R3230	ERJ2GEJ121	M. RESISTOR CH 2W 120 1		, RA2018	EXB24V332J	COMBI. R-R 3. 3K	1	
R3231	ERJ2GE0R00	M. RESISTOR CH 2W 0 1		RA2023	EXB28V102J	COMBI. R-R 1K	1	
R3232	ERJ2GEJ103	M. RESISTOR CH 2W 10K 1		RA2024	EXB24V472J	COMBI. R-R . 4. 7K	1	
R3233	ERJ2GEJ331	M. RESISTOR CH 2W 330 1			EXB24V103J	COMBI. R-R 10K	3	
	ERJ2GEJ331	M. RESISTOR CH 2W 10K 1			EXB24V103U	COMBI. R-R 10K	2	
R3234					EXB24V103J	COMBI. R-R 10K	2	
R3235-37	ERJ2GEJ392	M. RESISTOR CH 2W 3.9K 3					1	
R3238	ERJ2GEJ564	M. RESISTOR CH 2W 560K 1		RA4001	EXB24V562J	COMBI. R-R 5. 6K	 '	
R3239	ERJ2GEJ563	M. RESISTOR CH 2W 58K 1		was =	ED 1005	H DEDIGTOR OF COM	-	
R3240	ERJ2GEJ472	M. RESISTOR CH 2W 4. 7K 1		W602	ERJ2GEOROO	M. RESISTOR CH 2W 0	1	
R3241	ERJ2GEJ392	M. RESISTOR CH 2W 3.9K 1		W604, 05	ERJ2GE0R00	M. RESISTOR CH 2W 0	2	
					ļ		-	
							L	

VEP03E52A / VEP23443B

VEPUSE	32A / VI	EP23443B						_	
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	s Remarks
			2		D301-03	MA728	DIODE	3	
W2004	ERJ2GEOROO		1		D304, 05	188355	DIODE	2	
W6501			1		5001,00	1.00000		Ť	·
110001	EROOGE FORCE	m. Rectorde on 17 ton			FP301	VJS3971D051	CONNECTOR (FEMALE)	1	
X2001	VSX0847	CRYSTAL OSCILLATOR	1		FP305	VJS3320D012	CONNECTOR (FEMALE)	-	
	VSX0885		-;					1	
		CRYSTAL OSCILLATOR			FP701	VJS3320B022	CONNECTOR (FEMALE)	Ľ	
X2003	VSX0872	CRYSTAL OSCILLATOR	1					_	
X3001	VSX0848	CRYSTAL OSCILLATOR	1		10301	MN673432	10	1	
X3003	VSX0846	CRYSTAL OSCILLATOR	1		10302	MN673442	IC	1	
					10303, 04	MN4795F	IC	2	2 .
		MISCELLANEOUS			10305	MN1021617AA	IC	1	
					10308	T74VHC08FT	IC	1	
	VWJ13C8045AA	FLAT CARD CABLE	1		10311, 12	TC7SH14FU	10	2	!
	VWJ16C8050AA	FLAT CARD CABLE	-1		10701	T9P45AF	IC	1	
	VMZ2689	BARRIER	1		10702	TA8487F	IC	1	
			\neg		10703	TB6526F	IC	1	
			7		10704	NJM2115VAT	IC	1	
			7		10705	TA75W01FU	IC	1	
			\neg		10706	NJM2112V	IC	H	
			+		10700	NOMETTE V	10	H.	
_	VEP23443B	CAMERA/MAIN P. C. BOARD	-,1	(RTL)	L303-05	VLQ0807K100	COIL 10UH	3	
-	TET ESHAND	OCHIETOV MAIN F. U. BUARU	-1	WIL.				-	
			-+				COIL 33UH	2	†
0004	FOUNTS	O DADADITOR OU 4611 C 2111	_		L308		COIL 10UH	1	
		C. CAPACITOR CH 16V 0.01U	2				COIL 10UH	2	· · · · · · · · · · · · · · · · · · ·
-		T. CAPACITOR CH 4V 22U	1				COIL 6. 8UH	1	· · · · · · · · · · · · · · · · · · ·
		C. CAPACITOR CH 16V 0.01U	1			VLQ0807K100	COIL 10UH	2	
		C. CAPACITOR CH 16V 0, 015U	1		L703		COIL 47UH	1	
C306	ECSTOGY226Z	T. CAPACITOR CH 4V 22U	1		L704-06	VLQ0807K100	COIL 10UH	3	
C307	ECUX1H151JCQ	C. CAPACITOR CH 50V 150P	1						
C308	ECUX1C104ZFQ	C. CAPACITOR CH 18V 0.01U	1		LB301-07	VLP0355A102	COIL 100UH	7	
	ECSTOGY226Z	T. CAPACITOR CH 4V 22U	1		LB308		FILTER	1	
		C. CAPACITOR CH 16V 0. 015U	1		LB309		COIL	1	
			2				FILTER	3	
		C. CAPACITOR CH 16V 0.01U	1					_	
		T. CAPACITOR CH 4V 22U	1		PP301	VJP3884B080	CONNECTOR (MALE)	1	
		C. CAPACITOR CH 16V 0.01U	1		PP301	VJP38847B030	CONNECTOR (MALE)	- 1	
			-;-		PF302	VJP3647BU3U	CONNECTOR (MALE)		
		T. CAPACITOR CH 4V 22U	4					_	-
		T. CAPACITOR CH6. 3V 15U	4		Q301	2SD2216	TRANSISTOR		
			3		Q701-03	XN4404	TRANSISTOR-RESISTOR	_3	
		T. CAPACITOR CH 4V 22U	1		0704	2SD601A	TRANSISTOR	1	
			1		Q706	XP4501	TRANSISTOR-RESISTOR	1	
C323	ECSTOJY156Z	T. CAPACITOR CH6. 3V 15U	1		Q707	2SB1073	TRANSISTOR	_1	
C324-31	ECUX1C104ZFQ	C. CAPACITOR CH 16V 0. 01U	8						
C332	ECSTOGY226Z	T. CAPACITOR CH 4V 22U	1		QR302	MRN1102	TRANSISTOR	1	
C333	ECUX1C104ZFQ	C. CAPACITOR CH 16V 0.01U	1		QR303	XP1211	TRANSISTOR-RESISTOR	1	
C334	ECUX1C153KBQ	C. CAPACITOR CH 16V 0. 015U	1						
C335	ECUX1C104ZFQ	C. CAPACITOR CH 18V 0.01U	1		R301	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1	
			1				M. RESISTOR CH 2W 1M	1	
			1				M. RESISTOR CH 2W 100K	1	
			1				M. RESISTOR CH 2W 0	1	
			1		R307			1	
			-				M. RESISTOR CH 2W 120		
			-				M. RESISTOR CH 2W 10K	2	
		C. CAPACITOR CH 10V 1U	_				M. RESISTOR CH 2W 0	1	
			1				M. RESISTOR CH 2W 100	1	
			1				M. RESISTOR CH 2W 3.9K	1	
			1			ERJ2GEJ182	M. RESISTOR CH 2W 1.8K	1	
			1		R314, 15	ERJ2GEJ105	M. RESISTOR CH 2W 1M	2	
C709	ECST1AY106Z	T. CAPACITOR CH 10V 10U	1		R316, 17	ERJ2GEJ333	M. RESISTOR CH 2W 33K	2	
C711	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1		R318	ERJ2GEJ101	M. RESISTOR CH 2W 100	1	
	ECUX1H390JCQ	C. CAPACITOR CH 50V 39P	1				M. RESISTOR CH 2W 5.6K	1	1
		C. CAPACITOR CH 16V 0.1U	1				M. RESISTOR CH 2W 0	1	
			1				M. RESISTOR CH 2W 1K	1	
			1				M. RESISTOR CH 2W 0	2	
			1				M. RESISTOR CH 2W 10K	2	
			1					1	
			1					3	
			-		-		M. RESISTOR CH 2W 0	3	
			1				M. RESISTOR CH 1/16W 100	1	
			1				M. RESISTOR CH 2W 100K	1	
			1				M. RESISTOR CH 2W 33K	1	
			1				M. RESISTOR CH 2W 10K	2	
			1		R338	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
0725, 26	ECUX1C104ZFQ	C. CAPACITOR CH 16V 0.01U	2		R339, 40	ERJ2GEJ101	M. RESISTOR CH 2W 100	2	
C727	ECUX1A224KBV	C. CAPACITOR CH 10V 0. 22U	1		R341	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
C728	ECUMIA105KBN	C. CAPACITOR CH 10V 1U	1				M. RESISTOR CH 2W 0	1	
			+				M. RESISTOR CH 2W 47K	1	
			+			120 //0	200 476		
			+						
			_					_	L

VEP23443B / VEP20737B / VEP28240D / VEP28244B

VLI ZU	440D / VI	P20/3/B / VEP282		D / VEP28244B	_	·	-	T
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks Ref. No	Part No.	Part Name & Description	Pc	s Remarks
R367		M. RESISTOR CH 2W 1K	_	Alosada No.				
			-	TU701	VRT0147J683	THEOMICTOR	1	
		M. RESISTOR CH 2W 0		TH701	_			
R389, 90	ERJ2GEJ102	M. RESISTOR CH 2W 1K	2	TH702	VRT0147J334		_1	+
R391	ERJ2GE0R00	M. RESISTOR CH 2W 0	1	TH703	VRT0147J103	THERMISTOR	1	
R413	ERJ2GEOROO	M. RESISTOR CH 2W 0	1					
R471	ERJ2GEOR00	M. RESISTOR CH 2W 0	1	W302	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
		M. RESISTOR CH 1/16W 3.3	2	W305	ERJ2GEOROO		1	-
				1303	ENGZGEONOG	M. RESTOTOR Off EN	Η.	'
R703		M. RESISTOR CH 1/16W 100	1				Η.	
R704	ERJ2GEJ333	M. RESISTOR CH 2W 33K	1	X301	VSX0896	CRYSTAL OSCILLATOR	_1	
R705-07	ERJ2GEJ272	M. RESISTOR CH 2W 2.7K	3					
R708, 09	ERJ2GEJ473	M. RESISTOR CH 2W 47K	2			MISCELLANEOUS	_	
R710		M. RESISTOR CH 2W 10K	1				_	
			-		1/00/1770	DADDIED	1	
R711		M, RESISTOR CH 2W 15K	1		VGQ4776	BARRIER	Ľ	
R712	ERJ3RED124	M. RESISTOR CH 3W 120K	1				$oxed{oxed}$	
R713, 14	ERJ2RHD472	M. RESISTOR CH 2W 4. 7K	2					
R715	ERJ3RED124	M. RESISTOR CH 3W 120K	1					
R716		M. RESISTOR CH 2W 0	1				\vdash	
			<u> </u>				⊢	
R717, 18	ERJ6RBB472	M. RESISTOR CH 1/10W 4. 7K	2				_	
R719, 20	ERJ2GEJ153	M. RESISTOR CH 2W 15K	2		■ VEP20737B	GAMERA OPERATION P. C. BOARD	_1	(RIL)
R721	ERJ2GEJ221	M. RESISTOR CH 2W 220	1					
R722	ERJ2GEJ472	M. RESISTOR CH 2W 4.7K	1					
R723		M. RESISTOR CH 2W 10K	i i	SW6501	VSS0348	SWITCH	1	
							3	
R724		M. RESISTOR CH 2W 100K	1		EVQQW101M	SWITCH	\vdash	
R725	ERJ2GEJ152	M. RESISTOR CH 2W 1.5K	_1	SW6505	VSR0226	SWITCH	_1	
R726	ERJ2GEJ184	M. RESISTOR CH 2W 180K	1				L	
R727	ERJ2GEJ821	M. RESISTOR CH 2W 820	1				П	
R728		M. RESISTOR CH 2W 22K	1					
	_		<u> </u>		 		-	
R729	ERJ2GEJ392	M. RESISTOR CH 2W 3.9K	1		ļ		<u> </u>	
R730	ERJ2GEJ682	M. RESISTOR CH 2W 6.8K	1					
R731	ERJ2GEJ274	M. RESISTOR CH 2W 270K	1		■ VEP28240D	E. V. F. (A) P. C. BOARD	1	(RTL)
R732		M. RESISTOR CH 2W 3.3K	1					
R733		M. RESISTOR CH 2W 270K	1				\vdash	
			 '		141.0000	DARK LIGHT	١,	
R734		M. RESISTOR CH 2W 390K	1	BL881	VLL0203	BACK LIGHT	_1	
R735, 36	ERJ2GEJ333	M. RESISTOR CH 2W 33K	2				_	ļ
R737	ERJ2GEJ684	M. RESISTOR CH 2W 680K	1	Q881	2SK1299	TRANSISTOR	1	
R738	ERJ2GEJ153	M. RESISTOR CH 2W 15K	1					
			H	R881	ED 120EV 1472	M. RESISTOR CH 1/16W 47K	1	1
R739			-	1007	ERUSGE 10473	M. RESTSTOR ON 171011 47/K	H.	-
R740		M. RESISTOR CH 2W 47K	ᆜ				<u> </u>	
R741	ERJ2GEJ224	M. RESISTOR CH 2W 220K	1	T881	ETJ09K31AM	TRANSFORMER	1	
R742	ERJ2GEJ153	M. RESISTOR CH 2W 15K	1					
R743, 44	ERJ2RHD153	M. RESISTOR CH 2W 15K	2			MISCELLANEOUS		
R746		M. RESISTOR CH 1/10W 1.8K	1		+		\vdash	
			H		100 14 4 7 4	51 17 0450 0451 F	-	
R747		M. RESISTOR CH 2W 100K			VWJ1174	FLAT CARD CABLE	-	-
R748	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		1		_	
R750	ERJ2GEJ222	M. RESISTOR CH .2W 2.2K	1					
R751	ERJ2GEJ682	M. RESISTOR CH 2W 6.8K	1					
R752		M. RESISTOR CH 2W 1K	1				г	
			H		+		_	-
R753		M. RESISTOR CH 2W 2.2K	-				<u> </u>	()
R754	ERJ2GEJ473	M. RESISTOR CH 2W 47K	1		■ VEP28244B	E. V. F. (B) P. C. BOARD	_1	(RTL)
R755	ERJ2GEJ222	M. RESISTOR CH 2W 2.2K	1				L	
R756, 57	ERJ2GEJ103	M. RESISTOR CH 2W 10K	2					
R758		M. RESISTOR CH 2W 100K	1	C801	ECUM1 A335KRP	C. CAPACITOR CH 10V 33U	1	
			H	C802	ECGC18B150		1	
R759			-		+		H-	-
R760		M. RESISTOR CH 2W 39K	1	C827		C. CAPACITOR CH 50V 1000P	1	<u> </u>
R762, 63	ERJ2RHD272	M. RESISTOR CH 2W 2.7K	2	C829		C. CAPACITOR CH 16V 0.1U	_1	
R764, 65	ERJ2RHD122	M. RESISTOR CH 2W 1.2K	2	C830	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	_ 1	
R766		M. RESISTOR CH 2W 2.7K	1	C832	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	
R767		M. RESISTOR CH 2W 1.2K	÷	C833		T. CAPACITOR CH 16V 2.2U	1	
			i.				Ľ	,
R768		M. RESISTOR CH 2W 1K	1	C834-37	+	C, CAPACITOR CH 16V 0.1U	<u> </u>	
R769	ERJ2GEJ474	M. RESISTOR CH 2W 470K	1	C838, 39	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	-	
R775	ERJ2GEJ184	M. RESISTOR CH 2W 180K	1	C865, 66	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	! <u> </u>
R777		M. RESISTOR CH 2W 0	1					
			Ė	D801	MA338	DIODE	1	
D1001 65	EVDO4V4301	COMBI D.D.	-				1	-
		COMBI.R-R 47K	-	D803	188355	DIODE	Η'	ļ
RA307	EXB24V473J	COMB1. R-R 47K	-				L	
RA310	EXB24V332J	COMBI, R-R 3. 3K	1	FP801	VJS3319B018	CONNECTOR (FEMALE)	1	
RA311. 12	EXB24V103J	COMBI. R-R 10K	2	FP802	VJS3319B016	CONNECTOR (FEMALE)	1	· · ·
		COMBI. R-R 100K	2					
			_	10000	ETONTOFOO	IC	1	
		COMBI. R-R 1. 5K	1	10802	ET2070F0C		Η'	
RA317		COMBI.R-R 680	-	10805	TA75S558F	IC	_1	
RA319-21	EXB24V102J	COMBI. R-R 1K	3				L	
RA323	EXB24V102J	COMBI. R-R 1K	1	L801	VLQ0426J6R8	COIL	1	
RA324		COMBI. R-R 47K	1	L803-05	_	COIL 10UH	3	
			+			COIL 10UH	Ť	
RA325	EXB24V101J	COMBI. R-R 100	⊢-	L881	VLQ0779K100	100K	-	
RA333-39	EXB24V101J	COMBI. R-R 100	7				L	
							L	
t							_	

VEP28244B / VEP06C28A / VEP26195B / VEP00Y65A

<u>VEP28</u>	244B / VI	EP06C28A / VEP261	9:	B / VEPUUTOSA				_	
Ref. No.	Part No.	Part Name & Description	Pre	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	s Remarks
R802		M. RESISTOR CH 1/16W 1K	_		L902	VLQ0426J4R7		_	T
R805		M. RESISTOR CH 1/16W 1K	1		L903		COIL 10UH	-	
R807, 08		M. RESISTOR CH 1/16W 1K	2		L904	VLQ0319M3R3	COIL 3. 3UH		
			1		L905		COIL 10UH	-	
R832		M. RESISTOR CH 1/16W 100K				VLQ0807K100		⊢	
R834		M, RESISTOR CH 1/16W 1K	1		L907, 08	VLQ0807K100	COIL 10UH	-	
R835		M. RESISTOR CH 1/16W 4.7K	1					<u> </u>	
R836		M. RESISTOR CH 1/16W 470	_1		P901	VJP3972D004	CONNECTOR (MALE)	1	
R841		M. RESISTOR CH 1/16W 100	_1					L	
R849	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	_1		Q901	XP4601	TRANSISTOR-RESISTOR	_ 1	
R850	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		0903	XP1501	TRANSISTOR-RESISTOR	_1	
R851	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		Q904	XP4601	TRANSISTOR-RESISTOR	1	
R852		M. RESISTOR CH 1/16W 6.8K	1		Q905	2SD2216	TRANSISTOR	1	
	ERJ3RBD183	M. RESISTOR CH 3W 18K	2		Q906	XP1501	TRANSISTOR-RESISTOR	1	
R880	ERJ3RBD332	M. RESISTOR CH 3W 3.3K	1		4000	XI TOOT	THOMESTORY NEOTON	H	
ROOU	ERUSRBUSS2	M. RE31310K OH 311 3.3K	Ľ		00001	XP4312	TRANSPORTED DESIGNAD	1	
					QR901		TRANSISTOR-RESISTOR	1	
W802	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		QR905	MRN1104	TRANSISTOR	Ľ.	
					QR906	XP4213	TRANSISTOR-RESISTOR	1	
					R901, 02	ERJ3RBD153	M. RESISTOR CH 3W 15K	2	!
					R903	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
					R905		M. RESISTOR CH 1/16W 33K	1	
	VEP06C28A	HALL SENSOR P. C. BOARD	1	(RTL)	R906, 07		M. RESISTOR CH 1/16W 4.7K	2	
	- L1 00020A	THE SENSON I. O. DUARD	<u> </u>		R908, 07		M. RESISTOR CH 1/16W 4.7K	2	
			-					1	
		MICORI I ANECUE	_		R910	-	M. RESISTOR CH 1/16W 33K	-	
		MISCELLANEOUS			R911		M. RESISTOR CH 3W 15K	1	
					R912	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	_1	
	DN8797MS	HALL 1C	2		R913	ERJ3GEYG472	M. RESISTOR CH 1/18W 4.7K	1	
					R914	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
						-	M. RESISTOR CH 1/16W 0	3	
					R921	+	M. RESISTOR CH 1/16W 0	1	
					R922		M. RESISTOR CH 1/16W 33K	1	
			_					_	
					R924		M. RESISTOR CH 1/16W 1K	1	
	VEP26195B	MONITOR P. C. BOARD	1	(RTL)	R925-27	-	M. RESISTOR CH 1/16W 10K	3	
					R928	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	_1	
					R929, 30	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
C901	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		R931	ERJ3RBD333	M. RESISTOR CH 3W 33K	1	
C902	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1		R932	ERJ3RBD473	M. RESISTOR CH 3W 47K	1	
C903		T. CAPACITOR CH 10V 10U	1		R933	ERJ3RBD333	M. RESISTOR CH 3W 33K	1	
		C. CAPACITOR CH 50V 0. 01U	1			-	M. RESISTOR CH 1/16W 33K	2	
								3	
		C. CAPACITOR CH 50V 1000P	1		R944-46			_	
		C. CAPACITOR CH 10V 1U	1		R953		M. RESISTOR CH 1/16W 1K	1	
C909	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		R954-57	ERJ3GEYG472	M, RESISTOR CH 1/16W 4.7K	4	
C910	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1		R958, 59	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
C911	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	i i					
C912	ECST1VX225Z	T. CAPACITOR CH 35V 2, 2U	1		W908	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	- 1	
C922	ECSTOJY156Z	T. CAPACITOR CH6. 3V 15U	1						
C923	FCUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1				MISCELLANEOUS		
C924		C. CAPACITOR CH 50V 27P	1						
						VCOACOO	LCD DADDIED	1	
		C. CAPACITOR CH 50V 220P	-			VGQ4630	LCD BARRIER	1	L
		C. CAPACITOR CH 50V 10P	1					_	
		C. CAPACITOR CH 50V 3300P	1						
		T. CAPACITOR CH6. 3V 3. 3U	1						
C929	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1						
C933	ECUMIA105KBN	C. CAPACITOR CH 10V 1U	1						
C934	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1			VEP00Y65A	LCD/1F P. C. BOARD	1	(RTL)
		C, CAPACITOR CH 10V 1U	1				******		
C938		C. CAPACITOR CH 16V 0.1U	1					-	
5350	_00/10104/04	: on 107 0. 10	-		C3501	ECSTO ID1077	T. CAPACITOR CH6. 3V 100U	1	
P004	W4000	DIODE							
D901	MA338	DIODE	1		C3503	E091000107Z	T. CAPACITOR CH6. 3V 100U	1	
FP901		CONNECTOR (FEMALE)	1		FP3501		CONNECTOR (FEMALE)	1	
FP903	VJS3319B016	CONNECTOR (FEMALE)	1		FP3502, 03	VJS3320D016	CONNECTOR (FEMALE)	2	
FP904	VJS3320D016	CONNECTOR (FEMALE)	1						
FP905	VJS3319D006	CONNECTOR (FEMALE)	. 1		LB3501-04	VLP0157	COIL	4	
				-	LB3505-07		COIL	3	
10902	CXD2411AR	IC	1			-	FILTER	2	
								- 5	
	NJM2904V	IC	1		LB3510-14	VLPUIS/	COIL	3	
	LZ9GB244	IC	1						
10905	TC4W66FU	IC	1		PS3501	VJS3636-4	CONNECTOR (FEMALE)	_1	
10906	TC7ST04FU	IC	1		PS3502	VJS3989A070	CONNECTOR (FEMALE)	1	
10907	TC7S14F	IC	1						
10908	TC7ST08FU	10	1		R3501 02	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	2	
	NJM78L12UA	IC	1					_	
, 3000			-						
1.654	VIII 0000710177	0011	\rightarrow					_	
L901	VLQ0807K100	COIL 10UH	_1					_	
								_	

VEP04684A / VEP22270A / VEP06C24A / VEP06C37A / VEP22278A

VLI UT	<u>684A / VI</u>	EP22270A / VEP060	24	<u>A / VEP06C37A / \</u>	<u>/EP222/8</u>	A		_	
Dof No	Part No	Part Name & Description	Pre	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	Remarks
Ref. No.	Part No.	rart Name & Description	CE	Remarks	C403		T. CAPACITOR CH6. 3V 10U		
			-		0400	20070077002	T. O'M NOT THE TOTAL OF THE TOT	H	
			_	7	ED 101	V 100 4500000	COMPLETED (FEMALE)	۱	
	VEP04684A	FRONT P. C. BOARD	-1	(RTL)	FP401	VJ\$34520008	CONNECTOR (FEMALE)	H	
								-	
					I C401	M52944FP	IC	<u> </u>	
C4903	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1					_	
C4905	ECSTOJX226Z	T. CAPACITOR CH6. 3V 22U	-1		L401	VLQ0807K100	COIL 10UH	1	
C4908	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1						
		T. CAPACITOR CH6. 3V 22U	2		QR401	UN2212	TRANSISTOR-RESISTOR	1	
		C. CAPACITOR CH 16V 0.1U	1						
C4914					R401	ED 120EV 1102	M. RESISTOR CH 1/16W 10K	1	
C4915		C. CAPACITOR CH 16V 0. 047U	-		K401	EROSGETOTOS	M. REBIBION ON TOTAL	i i	
C4916		C. CAPACITOR CH 16V 0.1U	_1						
C4917		C. CAPACITOR CH 16V 0. 047U	_1						
C6401	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1					_	
C6402	ECSTOJY156Z	T. CAPACITOR CH6. 3V 15U	1					L	
D6801	CL150UR	DIODE	1			VEP06C24A	TOP OPERATION P. C. BOARD	-1	(RTL)
00001	OE TOOSIK	7,002	<u> </u>						
	VII E4 0000000	511 750	_					-	
FL4901		FILTER	1		Enecos	V IDDOODOOT	CONNECTOD (FEUALE)	1	
FL4902	VLF1341B306	FILTER	1		FP6801	vusu320000/	CONNECTOR (FEMALE)	<u> </u>	
FP4801	VJ\$3452A013	CONNECTOR (FEMALE)	1		\$6801-04	VSP1021	SWITCH	4	
FP4901	VJS3319D008	CONNECTOR (FEMALE)	1		\$6806	VSP1021	SWITCH	1	
FP4902		CONNECTOR (FEMALE)	1					L	
IR6401	VEK8283	REMOTE CONTROL RECEIVER	1					Г	
11/04/01	72110200	TOTAL SOUTHOU NEOFITEN						Г	
		W 0 140%	_					Н	
J4901	VJJ0414	MIC JACK	_1			WEDDOCTOT:	DEAD ODEDATION D. C. COLET	٠	(DT) \
			_			VEP06C37A	REAR OPERATION P. C. BOARD	ᆜ	(RTL)
Q4901	2SC3929	TRANSISTOR	1						
Q4902	2SB1218A	TRANSISTOR	1					L	
Q4903	2503929	TRANSISTOR	1		B6701	VL2020/1HF	BATTERY	1	
Q4904	2SB1218A	TRANSISTOR	1						
Q4905	2SD1210A	TRANSISTOR	1		D6701	CL150YG-CD	IC	1	
W4800	2301018A	TIMETOTOR	- 1			CL150IG-CD	DIODE	1	
			_		D6702	OLIGOR	DIODE	⊢-¦	
QR4903, 04	UN5212	TRANSISTOR-RESISTOR	2					\vdash	
					FP6701		CONNECTOR (FEMALE)	1	
R4902	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		FP6702	VJS33208005	CONNECTOR (FEMALE)	1	
R4905	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1						
R4906		M. RESISTOR CH 1/16W 10K	1		R6701	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R4907		M. RESISTOR CH 1/10W 150K	1		-				
		M. RESISTOR CH 1/10W 56K	1		\$6701	ESE103119	SWITCH	1	
R4908			1		\$6702	VMG0763	SWITCH	1	
R4909		M. RESISTOR CH 1/16W 1K	-					1	
R4910		M. RESISTOR CH 1/16W 5.6K	1		S6703	EVOPA401K	SWITCH	-	
R4911		M. RESISTOR CH 1/16W 150	1		\$6704	ESD165236	SWITCH	_1	
R4912	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1					L	
R4913	ERJ3GEYJ103	M, RESISTOR CH 1/16W 10K	1					L	
R4914	ERJ6GEYG154	M. RESISTOR CH 1/10W 150K	1						
R4915	+	M. RESISTOR CH 1/10W 56K	1						
R4916		M. RESISTOR CH 1/16W 1K	1						
		M. RESISTOR CH 1/16W 5. 6K	1		-	VEP22278A	CAMERA SUB P. C. BOARD	1	(RTL)
R4917						- LI ZZZ / OA	CAMPETON COD 1 . C. DOMINO	Η'	
R4918		M. RESISTOR CH 1/16W 150	1		-			\vdash	
R4919		M. RESISTOR CH 1/16W 4.7K	1		2.121		T 010101707 010	-	
R4924		M. RESISTOR CH 1/16W 2.2K	1		C1 01		T. CAPACITOR CH6. 3V 15U	1	
R4925		M. RESISTOR CH 1/16W 10K	1		C1 02		C. CAPACITOR CH 10V 1U	1	
R4926	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1		C1 03		C. CAPACITOR CH 10V 0.1U	1	
R4928	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		C104	ECSTOJX476Z	T. CAPACITOR CH6. 3V 47U	_1	
R4929		M. RESISTOR CH 1/16W 10K	1		C107	ECUM1 A1 05KBN	C. CAPACITOR CH 10V 1U	1	
R4930		M. RESISTOR CH 1/16W 1.2K	1		C108, 09		C. CAPACITOR CH 10V 1U	2	
R6803		M. RESISTOR CH 1/10W 180	1		C111		C, CAPACITOR CH 16V 0.1U	1	****
RUOUS	ENOUGE 10101	m. NEO 10 10 N OH 17 TOH 100	- -				C. CAPACITOR CH 10V 0.1U	2	-
	1	HIGOELI ANEGUO	_					1	
		MISCELLANEOUS			C115		C. CAPACITOR CH 16V 0. 1U	-	
			_		C117		T. CAPACITOR CH6. 3V 47U	\perp^1	<u> </u>
	VSC4666	SHIELD COVER A	1		C119	-	C. CAPACITOR CH 16V 0.1U	1	
	VSC4667	SHIELD COVER B	1		C124	ECUX1H270JCQ	C. CAPACITOR CH 50V 27U	1	
					C125, 26	ECUX1H150JCQ	C. CAPACITOR CH 50V 15P	2	
	1				C127, 28	ECUX1A104KBQ	C. CAPACITOR CH 10V 0.1U	2	
	+		-		C129	-	T. CAPACITOR CH 20V 4. 7U	1	
	1		\vdash		C130		T. CAPACITOR CH 35V 1.5U	H	
			\vdash					-	
-				1	C131		C. CAPACITOR CH 10V 1U	1	
			├			IECCTIONATET	T. CAPACITOR CH 20V 4. 7U	1 1	
	VEP22270A	AWT SENSOR P. C. BOARD	1	(RTL)	C132			┼—	
	VEP22270A	AWT SENSOR P. C. BOARD	1	(RTL)	C132 C133		T. CAPACITOR CH6. 3V 15U	1	
	■ VEP22270A	AWT SENSOR P. C. BOARD	1	(RTL)		ECSTOJY156Z		-	-
					C133	ECSTOJY156Z ECUX1A104KBQ	T. CAPACITOR CH6. 3V 15U C. CAPACITOR CH 10V 0.1U	3	
C401	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C133 C134-36 C154	ECSTOJY156Z ECUX1A104KBQ ECUM1A105KBN	T. CAPACITOR CH6. 3V 15U C. CAPACITOR CH 10V 0. 1U C. CAPACITOR CH 10V 1U	3	
	ECUX1C104KBV		1		C133 C134-36	ECSTOJY156Z ECUX1A104KBQ ECUM1A105KBN	T. CAPACITOR CH6. 3V 15U C. CAPACITOR CH 10V 0.1U	3	

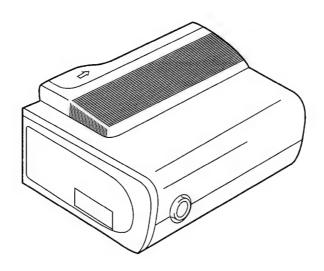
VEP22278A

VEPZZ	270/	7	_			_		_	
Ref. No.	Part No.	Part Name & Description	Pc:	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	s Remarks
C163		C. CAPACITOR CH 16V 0. 015U			10502, 03		IC	$\overline{}$	2
C500		T. CAPACITOR CH6. 3V 47U	+-		10504	UPC2391AGB	IC	1	
C501		C. CAPACITOR CH 10V 0. 1U	-		10505	TA75W01FU	10	1	
C504		T. CAPACITOR CH 10V 10U	+		10506	AN2018S	10	-	
C506		C. CAPACITOR CH 50V 15P	1		10507	MB88344PFV	IC	1	
C507		C. CAPACITOR CH 50V 18P	1		10507	RN5RG46AA	10	1	
C508, 09		C. CAPACITOR CH 50V 15P	2		10509	NJM2902V	IC	1	
			1		10509	AK6480AF	10		-
C510	-		+		10010	ANUMOUAL	10	⊢'	1
C511					1 4 2 4 2 2			<u>_</u>	
C512		C. CAPACITOR CH 50V 39P	1		L101, 02	VLQ0807K100		2	
C513	-	C. CAPACITOR CH 50V 18P	1			VLQ0807K100		-	
C514		C. CAPACITOR CH 50V 39P	_ 1		L114	VLQ0780K330		1	
C515		E. CAPACITOR 6. 3V 10M	1				COIL 10UH	_1	
C516-20	ECUX1A104KBQ	C. CAPACITOR CH 10V 0.1U	5		L502-04	VLQ0780K330	COIL 33UH	3	3
C521	ECSTOGY226Z	T. CAPACITOR CH 4V 22U	1		L505, 06	VLQ0807K100	CO1L 10UH	2	2
C522	ECUX1A104KBQ	C. CAPACITOR CH 10V 0. 1U	1		L507	VLQ0780M6R8	CO1L 6. 8UH	_1	
C523	ECUX1A224KBV	C. CAPACITOR CH 10V 0. 22U	1		L512	VLQ0807K100	COIL 10UH	1	
C524	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1		L513	VLQ0780M6R8	COIL 6. BUH	1	
C525-27	ECUX1A104KBQ	C. CAPACITOR CH 10V 0.1U	3					Г	
C528	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		LB101	VLP0154	COIL	1	
C529	ECUX1A224KBV	C. CAPACITOR CH 10V 0. 22U	1		LB102, 03	VLF1144A102	FILTER	2	
C530-41		C. CAPACITOR CH 10V 0.1U	12						
C542-44		E. CAPACITOR 6.3V 10M	3		PP101	VJP3358C026	CONNECTOR (MALE)	1	
C545		C. CAPACITOR CH 10V 0.1U	1		• •			ŕ	
C546		C. CAPACITOR CH 10V 0. 22U	+		Q501-03	2SB1462-R	TRANSISTOR	3	
C547		C. CAPACITOR CH 16V 0. 220	1			2SB1462-R	TRANSISTOR	1	
			_						· · · · · · · · · · · · · · · · · · ·
C548, 49		C. CAPACITOR CH 10V 0.1U	2			2SD2216	TRANSISTOR	1	
		C. CAPACITOR CH 16V 0. 001U	9				TRANSISTOR	1	
C559		T. CAPACITOR CH6. 3V 47U	1				TRANSISTOR	3	
C560		T. CAPACITOR CH6. 3V 4. 7U	1		Q510	2SB970X	TRANSISTOR	1	
C561, 62		C. CAPACITOR CH 10V 0.1U	2					_	
C563	ECSTOJY156Z	T. CAPACITOR CH6. 3V 15U	1		QR501-06	MRN1103	TRANSISTOR	6	
C564	ECUM1A225KBM	C. CAPACITOR CH 10V 22U	1						
C565	ECUX1A104KBQ	C. CAPACITOR CH 10V 0.1U	1		R101	ERJ2GEJ105	M. RESISTOR CH 2W 1M	1	
C566	ECSTOJY156Z	T. CAPACITOR CH6. 3V 15U	1		R102	ERJ2GEJ183	M. RESISTOR CH 2W 18K	1	
C567		C. CAPACITOR CH 10V 22U	1				M. RESISTOR CH 2W 1M	1	
C568		C. CAPACITOR CH 10V 0.1U	1		R105		M. RESISTOR CH 2W 0	1	
C569		T. CAPACITOR CH6. 3V 15U	1				M. RESISTOR CH 2W 47K	1	
C570		C. CAPACITOR CH 10V 22U	1				M. RESISTOR CH 2W 1M	1	
C571		T. CAPACITOR CH 10V 10U	1				M. RESISTOR CH 2W 0	1	
		C. CAPACITOR CH 10V 0.1U	3				M. RESISTOR CH 2W 100	2	
		T. CAPACITOR CH6. 3V 15U	2					1	
						-			
C577		C. CAPACITOR CH 10V 0. 1U	1				M. RESISTOR CH 2W 270	2	
C578		T. CAPACITOR CH6. 3V 15U					M. RESISTOR CH 2W 100K	1	
C579		C. CAPACITOR CH 10V 1U	1				M. RESISTOR CH 2W 0	1	-
C580		T. CAPACITOR CH6. 3V 15U	1				M. RESISTOR CH 2W 100K	_1	
C581		T. CAPACITOR CH 10V 10U	1				M. RESISTOR CH 2W 100K	2	
		C. CAPACITOR CH 50V 15P	2				M. RESISTOR CH 2W 1M	1	
C585	ECSTOJY156Z	T. CAPACITOR CH6. 3V 15U	1		R146	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1	
C586	ECUX1A105ZFV	C. CAPACITOR CH 10V 1U	1		R147	ERJ2GEJ221	M. RESISTOR CH 2W 220	1	
C587	ECUX1H150JC0	C. CAPACITOR CH 50V 15P	1		R148-53	ERJ2GEJ330	M. RESISTOR CH 2W 33	6	
C589	ECUX1A104KBQ	C. CAPACITOR CH 10V 0.1U	1				M. RESISTOR CH 2W 2.2K	2	
							M. RESISTOR CH 2W 680	5	
D103	MA728	DIODE	1				M. RESISTOR CH 2W 2.7K	1	
D104		DIODE	1				M. RESISTOR CH 2W 680	1	
D105		DIODE	1				M. RESISTOR CH 2W 2.7K	1	-
	MA728	DIODE	1				M. RESISTOR CH 2W 680	1	
D501	1SS355	DIODE	1					1	
							M. RESISTOR CH 2W 2. 7K	_	
D502	MA741WK	DIODE	1				M. RESISTOR CH 2W 150K	1	
D503, 04	188355	DIODE	2				M. RESISTOR CH 2W 10K	1	
			_				M. RESISTOR CH 2W 680	1	
FL501-03		FILTER	3				M. RESISTOR CH 2W 15K	1	
FL504-06	VLF1374	FILTER	3		R517		M. RESISTOR CH 2W 1K	1	
						ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
FP501	VJS3971D051	CONNECTOR (FEMALE)	1		R519	ERJ2GEJ154	M. RESISTOR CH 2W 150K	1	
FP502	VJS3320B005	CONNECTOR (FEMALE)	1		R520, 21	ERJ2GEJ681	M. RESISTOR CH 2W 680	2	
					R522	ERJ2GEJ154	M. RESISTOR CH 2W 150K	1	
IC101, 02	TC7SH08FU	10	2		R523		M. RESISTOR CH 2W 10K	1	
IC106	MN5236	IC	1				M. RESISTOR CH 2W 10K	1	
	MB87882PFV	IC	2		-		M. RESISTOR CH 2W 51K	1	
	T74VHC04FT	IC	1		-		M. RESISTOR CH 2W 1K	1	
	TC7SH04FU	10	1			_		1	
			\rightarrow		+			_	
	TC7SH08FU	IC	1				M. RESISTOR CH 2W 1K	1	
	TC7SH04FU	IC	-1				M. RESISTOR CH 2W 680	1	
I C501	NJU4051BVT	IC	1		R530	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1	
								-	

VEP22278A / VEP05352A

	<u> 278A / Ve</u>	1 0000271	_					_	
Dof Mo	Part No.	Part Name & Description	Pro	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Ref. No.				Remarks	C5016		C. CAPACITOR CH 50V 33P	1	
R531		M. RESISTOR CH 2W 680	1				C. CAPACITOR CH 16V 0. 001U	1	
R532		M. RESISTOR CH 2W 10K	1		C5017			-	
R533, 34	ERJ2RHD513	M. RESISTOR CH 2W 51K	2		C5018		G. CAPACITOR CH 50V 22P		
R535	ERJ2RHD103	M. RESISTOR CH 2W 10K	_1		C5019	ECUX1C103KBQ	C. CAPACITOR CH 16V 0. 001U	1	
R536	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1		C5020, 21	EEJKOJS106	E. CAPACITOR 6. 3V 10M	2	
R537, 38	ERJ2GEJ152	M. RESISTOR CH 2W 1.5K	2		05023, 24	ECUX1C103KBQ	C. CAPACITOR CH 16V 0. 001U	2	
R539	ERJ2RHD272	M. RESISTOR CH 2W 2.7K	1		C5025	EEJKOJS108	E. CAPACITOR 6.3V 10M	1	
		M. RESISTOR CH 2W 13K	1		C5026		C. CAPACITOR CH 25V 1500P	1	
R540	ERJ2RHD133		÷					1	
R541	ERJ2RHD183	M. RESISTOR CH 2W 18K	_1		C5027			ı,	
R542	ERJ2RHD133	M. RESISTOR CH 2W 13K	1		C5028	ECUX1E122KBQ	C. CAPACITOR CH 25V 1200P	1	
R543-45	ERJ2GEJ271	M. RESISTOR CH 2W 270	3		C5029	ECUMIA105KBN	C. CAPACITOR CH 10V 1U	1	
R546	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1		C5030	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P	_1	
R547	ERJ2RHD102	M. RESISTOR CH 2W 1K	1		C5031	ECUX1C103KBQ	C. CAPACITOR CH 16V 0. 001U	1	
			1		C5032		C. CAPACITOR CH 50V 47P	1	
R548	ERJ2GEJ183		<u> </u>					1	-
R549	ERJ2GEJ333	M. RESISTOR CH 2W 33K	1		C5033			-	
R550	ERJ2GE0R00	M. RESISTOR CH 2W 0	1				C. CAPACITOR CH 16V 0. 001U	_1	
R551	ERJ2GEJ153	M. RESISTOR CH 2W 15K	1				E, CAPACITOR 6.3V 10M	3	
R552	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1		C5038-40	ECUX1C103KBQ	C. CAPACITOR CH 16V 0. 001U	3	1
R553	ERJ2RHD393	M. RESISTOR CH 2W 39K	1						
R554	ERJ2GEJ333	M. RESISTOR CH 2W 33K	1		FP5001	VJS3320B008	CONNECTOR (FEMALE)	1	113
			_		110001	70330205000	COMMEDICAL CARACTER	i -	
R555	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1					-	
R556	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1		I C5001	AN3731FHQ	IC	1	
R557, 58	ERJ2GEJ223	M. RESISTOR CH 2W 22K	2					_	
R559	ERJ2GEJ153	M. RESISTOR CH 2W 15K	1		L5002, 03	VL00808J220	COIL 22UH	2	
	ERJ2GEJ103	M. RESISTOR CH 2W 10K	3		L5005	VLQ0807M4R7	COIL 4. 7UH	1	
R563-65	ERJ2GEJ153	M. RESISTOR CH 2W 15K	3		L5007		COIL 4. 7UH	1	
					20001	, 54000 / m-H(/	4, 7011	<u> </u>	
R566		M. RESISTOR CH 2W 10K	1			000000	TRIVIOLOTOR	<u> </u>	
R567	ERJ2GEJ153	M. RESISTOR CH 2W 15K	1		Q5002, 03		TRANSISTOR	2	
R568	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1		Q5005, 06	2SD1819A	TRANSISTOR	2	
R569	ERJ2GEJ153	M. RESISTOR CH 2W 15K	1						
R570		M. RESISTOR CH 2W 10K	1		R5002	ERJ2GEJ471	M. RESISTOR CH 2W 470	1	
		M. RESISTOR CH 2W 15K	1		R5003		M. RESISTOR CH 2W 10K	1	
R571			1					1	
R572		M. RESISTOR CH 2W 10K	1		R5004			-	
R573	ERJ2RHD163	M. RESISTOR CH 2W 16K	1		R5005		M. RESISTOR CH 2W 1K	1	
R574	ERJ2GEJ183	M. RESISTOR CH 2W 18K	1		R5010	ERJ2GEJ680	M. RESISTOR CH 2W 68	_1	
R575	ERJ2GE0R00	M. RESISTOR CH 2W 0	1		R5012	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	_1	
R576	ERJ2GEJ822	M. RESISTOR CH 2W 8.2K	1		R5013	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R577	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1			ERJ2GEJ271	M. RESISTOR CH 2W 270	2	
			<u>'</u>			ERJ2GEJ102	M. RESISTOR CH 2W 1K	2	
R578	ERJ2GEJ154	M. RESISTOR CH 2W 150K	<u>'</u>					-	
R579	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1		R5018		M. RESISTOR CH 2W 68	1	
R580	ERJ2GEJ154	M. RESISTOR CH 2W 150K	1		R5019	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	_1	
R581	ERJ2GEJ100	M. RESISTOR CH 2W 10	1	11	R5020	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R582	ERJ2GEJ222	M. RESISTOR CH 2W 2.2K	1		R5021	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R585	ERJ2GEJ333	M. RESISTOR CH 2W 33K	1		R5024		M. RESISTOR CH 2W 10K	1	
			<u></u>				M. RESISTOR CH 2W 270	1	
R586, 87	ERJ2GEJ222	M. RESISTOR CH 2W 2. 2K	2		R5025	ERJ2GEJ271		-	
R588	ERJ2GEJ821	M. RESISTOR CH 2W 820	_1		R5026	ERJ2GEOR00	M. RESISTOR CH 2W 0	1	
R589-91	ERJ2GEJ102	M. RESISTOR CH 2W 1K	3		R5028	ERJ2GEJ152	M. RESISTOR CH 2W 1.5K	1	
R592, 93	ERJ2GEJ332	M. RESISTOR CH 2W 3.3K	2		R5029	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
			-						
W101	ERJ2GE0R00	M. RESISTOR CH 2W 0	1			-	MISCELLANEOUS		
W101			-					\vdash	
W105-07		M. RESISTOR CH 2W 0	-	I		V004000	CHIEF COVER	١.	
W109		M. RESISTOR CH 2W 0	-			VSC4639	SHIELD COVER	1	
W112	ERJ2GE0R00	M. RESISTOR CH 2W 0	1					<u> </u>	
W114	ERJ2GEOR00	M. RESISTOR CH 2W 0	1					<u></u>	
								L	
X101	VCR0501	CRYSTAL OSCILLATOR	1						
	1		'					Г	
		MISSELLANESUS	\vdash					-	1
		MISCELLANEOUS	-				-	\vdash	
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	VEP05352A	HEAD AMP P. C. BOARD	1	(RYL)	•				
	VEP05352A	HEAD AMP P. C. BOARD	1	(RTL)	•				
	VEP05352A	HEAD AMP P. C. BOARD	1	(RTL)	•				
				(RTL)	•	,			
C5001, 02	ECUX1C103KBQ	C. CAPACITOR CH 18V 0. 001U	2	(RTL)					
	ECUX1C103KBQ ECUX1C103KBQ	C. CAPACITOR CH 16V 0. 001U C. CAPACITOR CH 16V 0. 001U	2	(RTL)	•				
C5001, 02	ECUX1C103KBQ ECUX1C103KBQ	C. CAPACITOR CH 18V 0. 001U	2	(RTL)	•				
C5001, 02 C5004 C5007	ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ	C. CAPACITOR CH 16V 0. 001U C. CAPACITOR CH 16V 0. 001U	2 1 1	(RTL)	•				
C5001, 02 C5004 C5007 C5010	ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ	C. CAPACITOR CH 16V 0. 001U C. CAPACITOR CH 16V 0. 001U C. CAPACITOR CH 16V 0. 001U C. CAPACITOR CH 16V 0. 001U	2 1 1	(RTL)	•				
C5001, 02 C5004 C5007 C5010 C5013	ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1E152KBQ	C. CAPACITOR CH 18V 0. 001U C. CAPACITOR CH 18V 0. 001U C. CAPACITOR CH 18V 0. 001U C. CAPACITOR CH 16V 0. 001U C. CAPACITOR CH 25V 1500P	2 1 1 1	(RTL)	•				
C5001, 02 C5004 C5007 C5010 C5013 C5014	ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1E152KBQ EEJKOJS108	C. CAPACITOR CH 16V 0. 001U C. CAPACITOR CH 25V 1500P E. CAPACITOR 6. 3V 10M	2 1 1 1 1 1 1	(RTL)					
C5001, 02 C5004 C5007 C5010 C5013	ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1E152KBQ EEJKOJS108	C. CAPACITOR CH 18V 0. 001U C. CAPACITOR CH 18V 0. 001U C. CAPACITOR CH 18V 0. 001U C. CAPACITOR CH 16V 0. 001U C. CAPACITOR CH 25V 1500P	2 1 1 1	(RTL)	•				
C5001, 02 C5004 C5007 C5010 C5013 C5014	ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1E152KBQ EEJKOJS108	C. CAPACITOR CH 16V 0. 001U C. CAPACITOR CH 25V 1500P E. CAPACITOR 6. 3V 10M	2 1 1 1 1 1 1	(RTL)	•				
C5001, 02 C5004 C5007 C5010 C5013 C5014	ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1C103KBQ ECUX1E152KBQ EEJKOJS108	C. CAPACITOR CH 16V 0. 001U C. CAPACITOR CH 25V 1500P E. CAPACITOR 6. 3V 10M	2 1 1 1 1 1 1	(RTL)	•				

VW-AD3E



SPECIFICATIONS

ITEM	SPECIFICATION						
	Source: AC 100~240 V, 50~60 Hz						
POWER	Consumption: 20 W						
	Output: DC 7.9 V, 11 W (Movie Camera Operation) DC 7.9 V, 1.2 A (Battery Charging)						
OPERATING TEMPERATURE	0~40°C						
OPERATING HUMIDITY	10~80%						
DIMENSIONS	72 (W)×43 (H)×98 (D) mm						
WEIGHT	170 g						

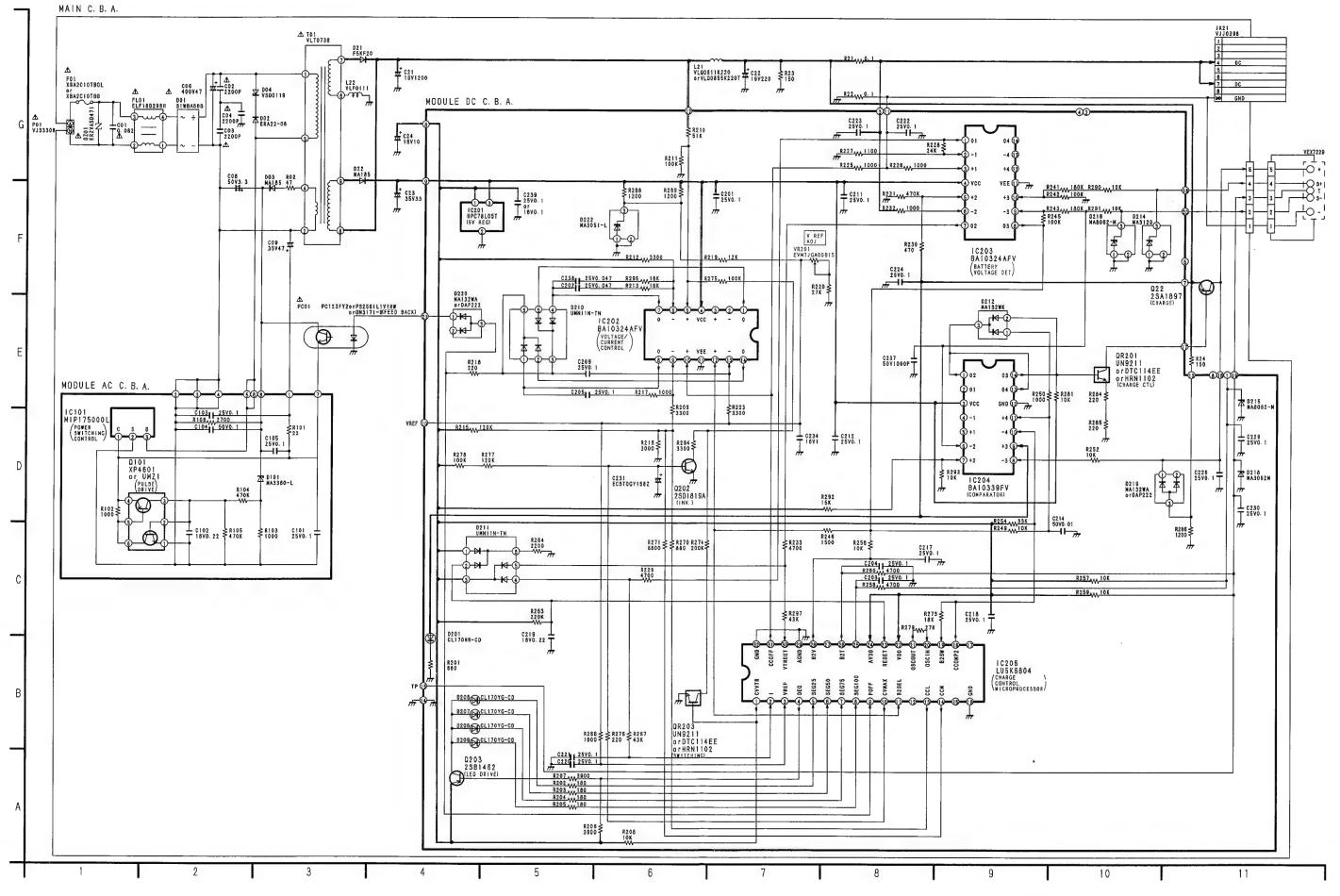
Weight and dimensions shown are approximate. Specifications are subject to change without notice.

CAUTION: FOR USE WITH DIGITAL VIDEO CAMERA RECORDER, MODEL AG-EZ10E, AG-EZ30E. WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CONTENTS

1.	AC ADAPTOR SCHEMATIC DIAGRAM	. 1
2.	AC ADAPTOR CIRCUIT BOARD DIAGRAM	. 3
3.	EXPLODED VIEWS & MECHANICAL REPLACEMENT PARTS LIST	. 5
	• AC ADAPTOR SECTION	5
	2 PACKING & ACCESSORIES SECTION	6
1	ELECTRICAL REPLACEMENT PARTS LIST	7

1.AC ADAPTOR SCHEMATIC DIAGRAM



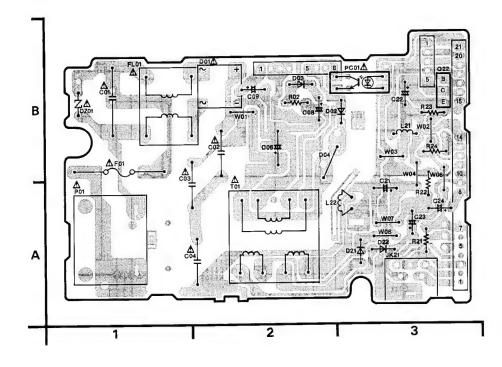
2. AC ADAPTOR CIRCUIT BOARD DIAGRAM

IMPORTANT SAFETY NOTICE:

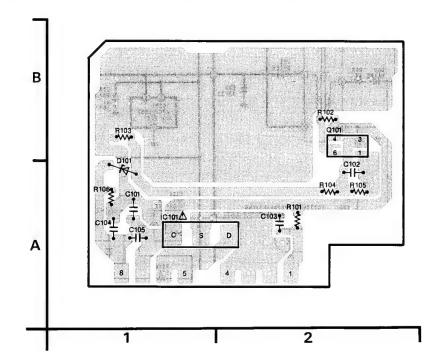
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.

WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

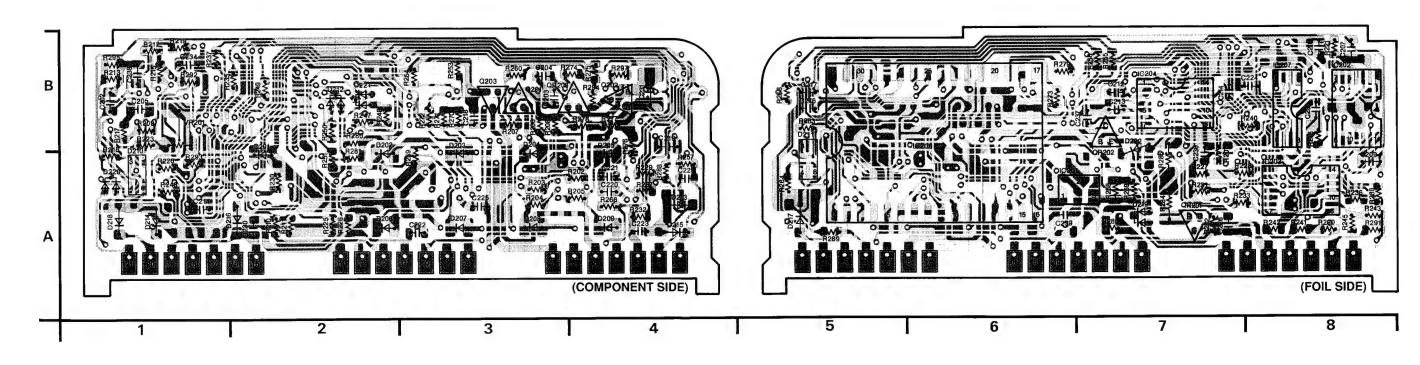
MAIN C.B.A. (VEP61257A)



MODULE AC C.B.A. (VEP60530A)

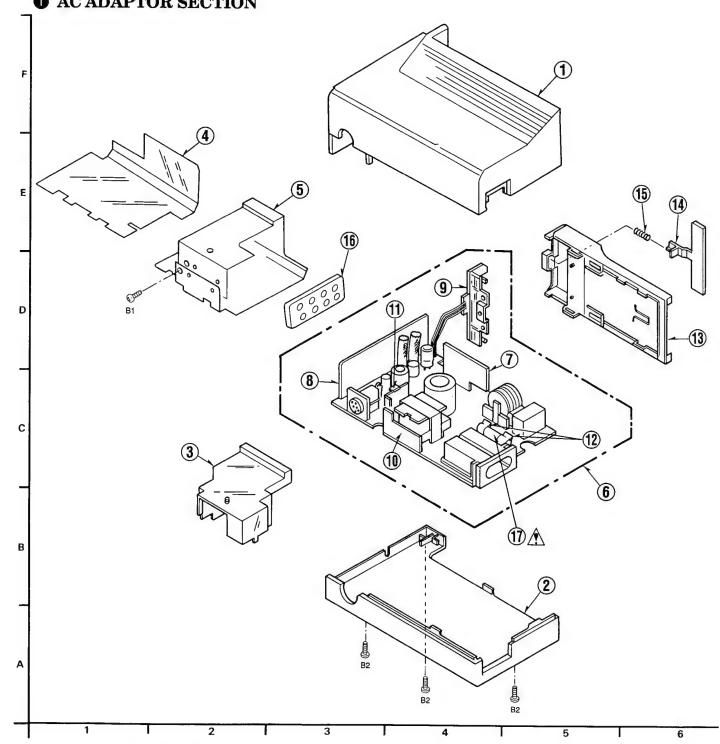


MODULE DC C.B.A. (VEP60531C)



3. EXPLODED VIEWS & MECHANICAL REPLACEMENT PARTS LIST

1 AC ADAPTOR SECTION



Note: 1. * Be sure to make your orders of replacement parts according to this list.

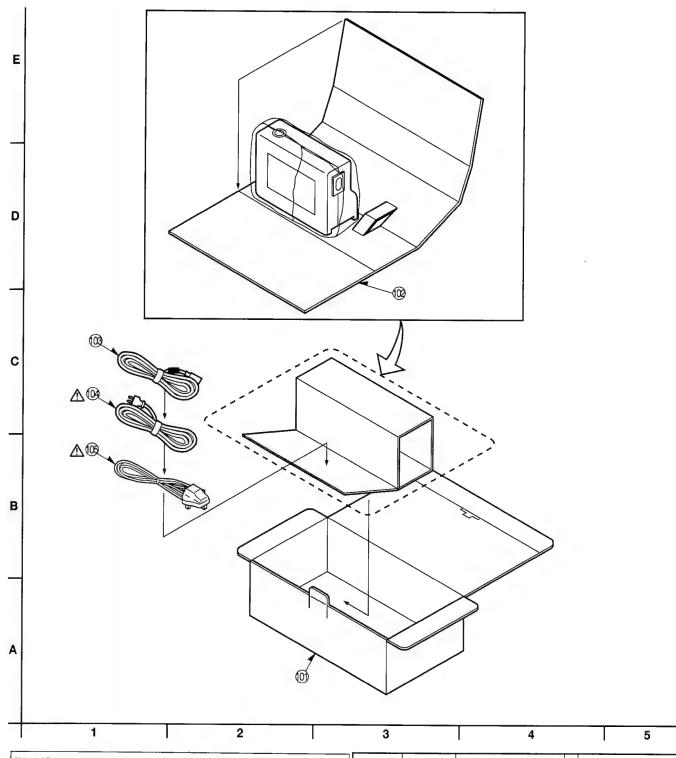
2. IMPORTANT SAFETY NOTICE

Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	rPcs	Remarks
1	VYK7839	TOP CASE	1	
2	VKM3968	BOTTOM CASE	1	
3	VMZ2290	BARRIER (UPPER)	1	
4	VMZ2291	BARRIER (LOWER)	1	
5	VSC4086	SHIELD CASE	1	
6	VEP61257A	MAIN P. C. BOARD	1	
7	VEP60530A	MODULE AC P. C. BOARD	1	
8	VEP60531C	MODULE DC P. C. BOARD	1	

Ref. No.	Part No.	Part Name & Descriptio	Pc:	Remarks
9	VEK7229	BATTERY CATCHER	1	
10	VSC4104	HEAT SINK	1	
11	VMC0661	TR SUPPORT SPRING	1	
12	VJF1013	FUSE HOLDER (N)	2	
13	VKM4048	HOLDER	1	
14	VKF2288	SHUTTER	1	
15	VMB2767	SPRING	1	
16	VMX2365	EXPRESSION FRAME	1	
<u> 1</u> 7	XBA2C10TB0L	FUSE	1	
B1	XSB2+4FZ	SCREW	1	
B2	XTB2+8GFZ	SCREW	3	

2 PACKING & ACCESSORIES SECTION



	1. * Be sure to make your orders of replacement parts according to this list.
2	2. IMPORTANT SAFETY NOTICE
	Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
101	VPG8522	PACKING CASE	1	
102	VPN4489	PAD	1	
103	VEK8226	DC CABLE ASS' Y	1	
104	VJA0998	AC CORD	1	
105	VJA0940	AC CORD	1	
			7	

	Ref. No.	Part No.	Part Name &	DescriptionPo	s Remarks
any					_
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4. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE: Components identified with the mark \(\Delta\) have the special characteristics for safety. When replacing any of these components, use only the same type.

3. Unless otherwise specified,

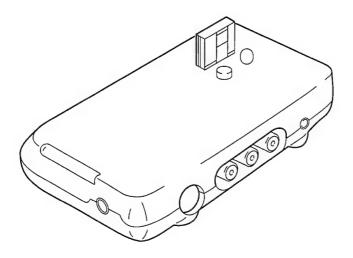
	otherwise specified		1100	OFARADS/M P-InF	L21	VLQ0611K220	COIL 22U	1	-
		K≥1,000 OHMS. All capacitors are in M ed width " " show below the main ass			L22	VLP0111	COIL	1	
		ers the retention time is limited for this it		oco para.	L22	VEPUIII	COTE	 	-
		this assembly in production, it will no lo		r be available.	⚠ P01	VJS3306	CONNECTOR (FEMALE)	1	1
					AZ POI	VJ53306	CONNECTOR (FEMALE)	-	
VEP61	257B / VI	EP60530A / VEP605	31	F	⚠ PC01	PC123FY2	PHOTO COUPLER	1	
					/AX F CO1	F0123F12	PHOTO COUNTERN	H.	
Ref. No.		Part Name & Description	_	Remarks	022	2SA1897	TRANSISTOR	1	
	VEP61257B	MAIN P. C. BOARD	1	(RTL)	Q101	XP4601	TRANSISTOR-RESISTOR	1	
	VEP60530A	MODULE AC P. C. BOARD	_	FOR VEP61257B	Q202	2SD1819A	TRANSISTOR	-	
-	VEP60531F	MODULE DC P. C. BOARD		FOR VEP61257B	Q203	2SB1462	TRANSISTOR	1	
A 504	VD 4 004 OTDOI	CHOC	1		4200	2551402	Troubororor.	Ė	
<u> </u>	XBA2C10TB0L	FUSE		-	QR201	UN9211	TRANSISTOR-RESISTOR	1	
	VED 01 0 5 7 D	MALAL D. C. BOADD	- 1	(RTL)	QR203	UN9211	TRANSISTOR-RESISTOR	1	
	VEP61257B	MAIN P. C. BOARD	_	FOR VEP61257B	41/200	5.10277		H	
	VEP60530A VEP60531F	MODULE AC P. C. BOARD MODULE DC P. C. BOARD	_	FOR VEP61257B	R02	ERDS2TJ470	C. RESISTOR 1/4W 47	1	
	VEF00331F	MODULE DO F. O. BOARD		1 OK 121 012070	R21		M. RESISTOR 1W 0.1	1	
∆ C01	ECQU2A823MVA	P. CAPACITOR 100V 0. 082U	1		R22		M. RESISTOR 1W 0.1	1	
/∆ C02-04		C. CAPACITOR 2200P	3		R23	ERG2SJ151	M. RESISTOR 2W 150	1	
C06	ECA2GG470Y	E. CAPACITOR 400V 47U	1		R24	ERG1SJ151	M. RESISTOR 1W 150	1	
C08	ECA1HFG3R3	E. CAPACITOR 50V 3.3U	1		R101	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
C09	ECEA1VGE470	E. CAPACITOR 35V 47U	1		R102, 03	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
C21	EEUFA1C122B0		1		R104, 05	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	2	
C22	ECEA1 CGE221	E. CAPACITOR 16V 220U	1		R106		M. RESISTOR CH 1/16W 2.7K	1	
C23		E. CAPACITOR 35V 33U	1		R201	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
C24	ECEA1CKG100		1		R202-05	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	4	
C101		C. CAPACITOR CH 25V 0.1U	1		R206, 07	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	2	
C102		C. CAPACITOR CH 16V 0. 22U	1		R208	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
C103		C. CAPACITOR CH 25V 0.1U	1		R209	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
C104	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1		R210	ERJ3RBD513	M. RESISTOR 3W 51K	1	
C105	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		R211	ERJ3RBD104	M. RESISTOR CH 3W 100K	1	
C201	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		R212	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
C202	ECUM1E473KBN	C. CAPACITOR CH 25V 0. 047U	1		R213	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	No.
C203, 04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		R215	ERJ3RED124	M. RESISTOR CH 3W 120K	1	
C205	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		R216	ERJ3RBD302	M. RESISTOR CH 3W 3K	1	
C209	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		R217	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
C211, 12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		R218	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
C214	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U	1		R219		M. RESISTOR CH 1/16W 12K	1	
C217, 18	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		R220	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
C219	ECUX1C224KBN	C, CAPACITOR CH 16V 0. 22U	1		R223		M. RESISTOR CH 1/16W 3.3K	1	
C220-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5		R225, 26		M. RESISTOR CH 1/16W 1K	2	<u> </u>
C226	ECUX1E104ZFV	C, CAPACITOR CH 25V 0.1U	1		R227	ERJ3RBD112	M. RESISTOR CH 3W 1.1K	1	
C229, 30	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		R228	ERJ3RBD243	M. RESISTOR CH 3W 24K	1	
C231		T. CAPACITOR CH6. 3V 15U	1		R229		M. RESISTOR CH 1/16W 4.7K	'	
C234		C. CAPACITOR CH 16V 1U	1		R230		M. RESISTOR CH 1/16W 470	1	
C237		C. CAPACITOR CH 50V 1000P	1		R231		M. RESISTOR CH 1/16W 470K	H:	
C238		C, CAPACITOR CH 25V 0. 047U	1		R232		M. RESISTOR CH 1/16W 1K		
C239	ECUX1E104ZFV	C, CAPACITOR CH 25V 0.1U	1		R233		M. RESISTOR CH 1/16W 4. 7K	'	
			_		R241	ERJ3RED184	M. RESISTOR CH 3W 180K	 '	
<u> </u>	S1WBA60S	DIODE	1		R242	ERJ3RBD104		+;	
D02	ERA22-08	DIODE	1		R243			+	
003	MA185	DIODE	1		R245	ERJ3RBD104	M. RESISTOR CH 3W 100K M. RESISTOR CH 1/16W 1.5K	+	
D04	VSD0119	DIODE	1		R246 R249		M. RESISTOR CH 1/16W 10K	-	1
D21	F5KF20	DIODE	1		R250		M. RESISTOR CH 1/16W 1K	-	
D22	MA185	DIODE	1		R250	-	M. RESISTOR CH 1/16W 10K	+	
D101	MA3360-L	DIODE	1		R254		M. RESISTOR CH 1/16W 33K	-	
D201	CL170HR-CD	DIODE	4		R256, 57		M. RESISTOR CH 1/16W 10K	-	2
D206-09	CL170YG-CD	DIODE	2		R258		M. RESISTOR CH 1/16W 4. 7K	+-	
D210, 11	UMN11N MA132WK	DIODE	1		R259	ERJ3RBD103	M. RESISTOR CH 3W 10K	+	
D212	MA132WK MA3120	DIODE	1		R260		M. RESISTOR CH 1/16W 4.7K	-	
D214	MA8062-M	DIODE	2		R263	+	M. RESISTOR CH 1/16W 220K	+	
D215, 16 D218	MA3062M	DIODE	1		R264		M. RESISTOR CH 1/16W 2.2K	-	ī
D219, 20	MA132WA	DIODE	2		R266		M. RESISTOR CH 1/16W 1K	+-	
D219, 20	MA3051-L	DIODE	1		R267		M. RESISTOR CH 1/16W 43K	+	1
0666			Η.		R268, 69		M. RESISTOR CH 1/10W 1.2K	+	2
⚠ DZ01	ERZVA5D471	DIODE	1		R270	ERJ3RBD681	M. RESISTOR CH 3W 680	-	
777 2501	-ILE (NOD 77)		Ľ		R271	ERJ3RBD682	M. RESISTOR CH 3W 6.8K	+-	1
⚠ FL01	ELF18D296H	COIL	1		R273		M. RESISTOR CH 1/16W 18K	+	1
۳. ۲۰۱			ť		R274	ERJ3RED204	M. RESISTOR CH 3W 200K	+	1
IC101	MIP175000L	IC	1		R275	ERJ3RBD104	M. RESISTOR CH 3W 100K	+	1
10201	UPC78L05T	ic	1		R276	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	+	1
10201		IC	2		R277	ERJ3GEYJ124		+	1
10204	BA10324AFV	IC	1		1			T	
10204	LU5K6B24	10	1					I	
.02.00	1200.0027	1	<u>'</u>						

Ref. No. Part No. Part Name & DescriptionPcs
JK21 VJJ0398 DC JACK 1

VEP60531F

Remarks

VEP605)3 IF							_	
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No	Part Name & Description	Pcs	Remarks
R278		M. RESISTOR CH 1/16W 100K							
		M. RESISTOR CH 3W 27K							
R281	ED ISSEV ILOS	M. RESISTOR CH 1/16W 10K	1	-				\Box	
R201	ERUSGETUTOS	M. RESISTOR CH 1/8W 220	2					П	
	ERJ8GETJ221	M. RESISTOR CH 1/8# 220						\vdash	<u> </u>
	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	1					\vdash	
		M. RESISTOR CH 3W 10K	2					\vdash	
R292	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1						
		M. RESISTOR CH 1/16W 10K	1						
R294	ED 130EV6333	M. RESISTOR CH 1/16W 3.3K	1						
R294	ERUSGET USS	M. RESISTOR OIL 1/10W J.SK	-		-			\Box	
R295	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1					\vdash	
R297	ERJ3GEYJ433	M. RESISTOR CH 1/16W 43K	1					\vdash	
<u>N</u> T01	VLT0738	TRANSFORMER	1					\sqcup	
VR201	EVM7JGA00B15	V. RESISTOR 100K	1						
¥R201	LYMITOGROODIO	7.1120701011	-	-				П	
		W GOEL LANEOUS					-		
		MISCELLANEOUS	_					-	***
<u>V</u>	VJF1013	FUSE HOLDER	2		Ĺ				
	VEK7229	BATTERY CATCHER	1						
		HEAT SINK	1						
-		TRANSISTOR HOLDER	1						
		CONNECTOR	_	FOR VEP60530A				М	
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	VJR0754-	CONNECTOR	32	FOR VEP60531F				\vdash	<u> </u>
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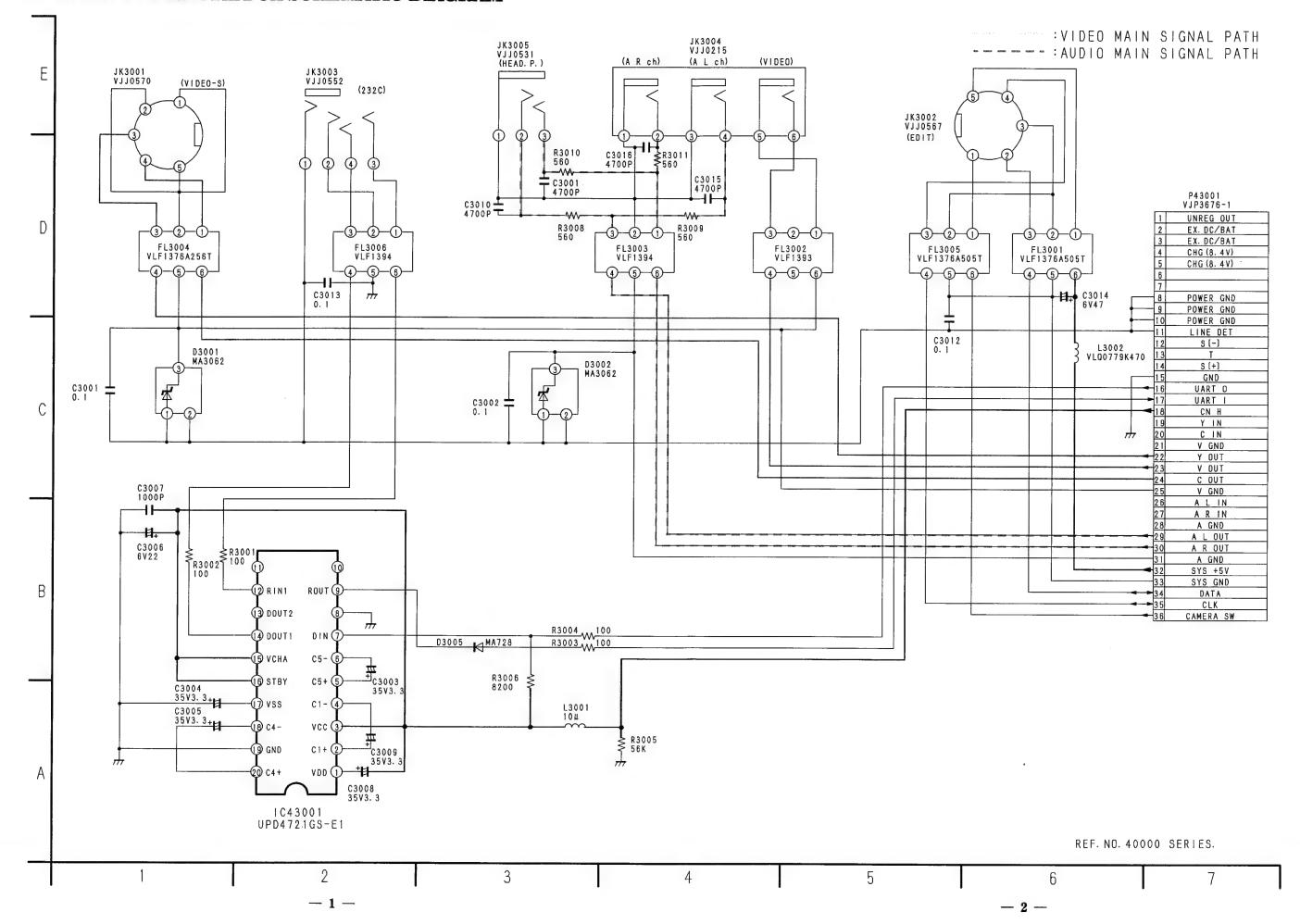


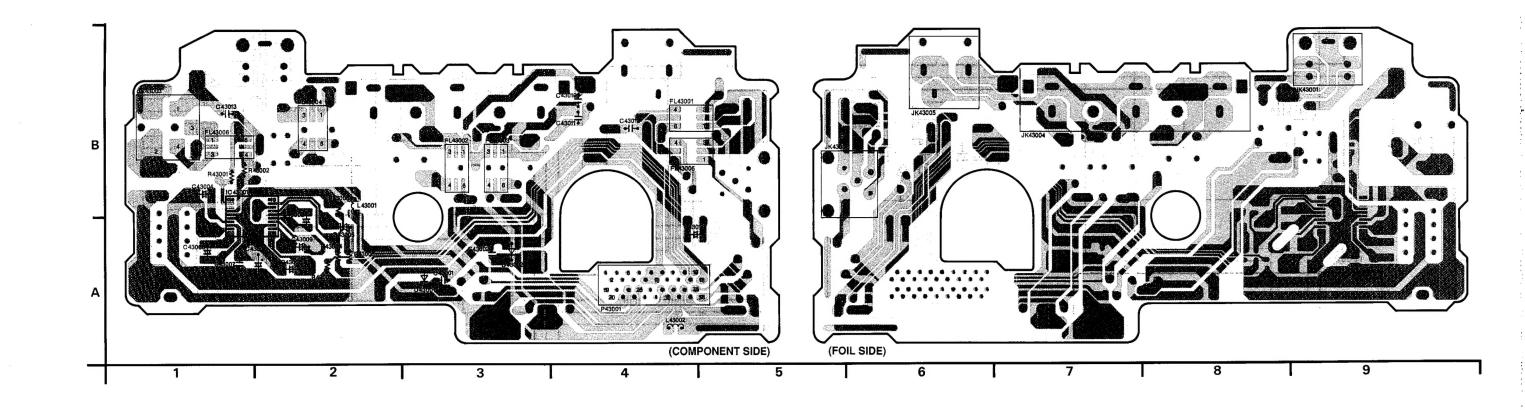
CAUTION: FOR USE WITH DIGITAL VIDEO CAMERA RECORDER, MODEL AG-EZ10E, AG-EZ30E. WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

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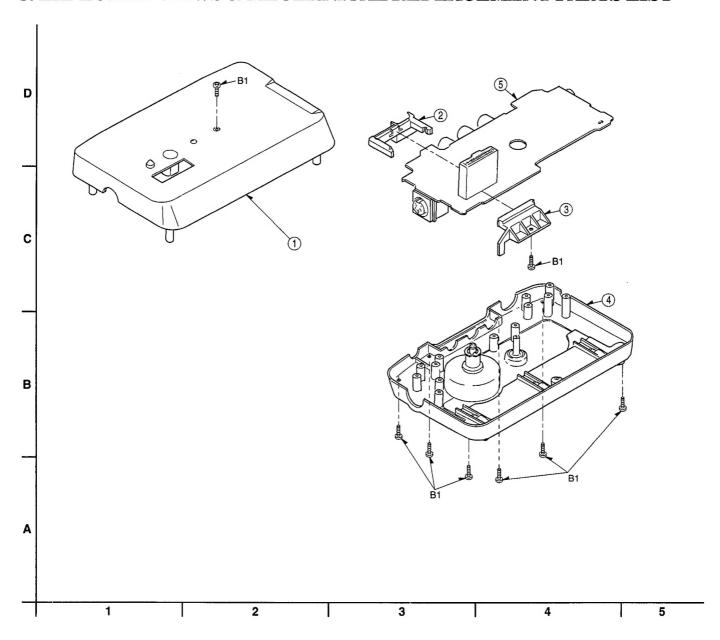
1. OUTPUT TERMINAL BOX SCHEMATIC DIAGRAM





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3. EXPLODED VIEWS & MECHANICAL REPLACEMENT PARTS LIST



Note: 1.* Be sure to make your orders of replacement parts according to this list. 2. IMPORTANT SAFETY NOTICE Components identified with the mark \(\Delta\) have the special characteristics for safety. When replacing any of these components, use only the same type.					Ref. No.	Part No.	Part Name & Description	Pcs Remarks
Ref. No.	Part No.	Part Name & Description	cs Remarks					
1	VKM4770	TOP CASE	1	-1				
2	VGQ4458	HOLDER A	1					
3	VGQ4457	HOLDER B	1					
4	VYK7872	BOTTOM CASE	1					
5	VEP63203A	OUTPUT TERMINAL BOX P. C. B	1					
	•							
B1	XTB2+8GFZ	SCREW	8					
			-	$-\parallel$	-			

4. ELECTRICAL REPLACEMENT PARTS LIST

lote: 1. Be sui	re to make your or RTANT SAFFTY N	ders of replacement parts according to IOTICE: Components identified with the	thi:	s list.	Ref. No.	Part No.	Part Name & Description	or Po	s Remarks
for saf	fety. When replacing	ng any of these components, use only	the	ark 213 have the special characteristics same type.					
Unless	s otherwise specifie	ed,							
		i, K=1,000 OHMS. All capacitors are in rked width " " show below the main a						┸	
5. The m.	arking (RTL) indica	aters the retention time is limited for this	item		ļ			_	
After th	he discontinuation of	of this assembly in production, it will no	long	er be available.		-		+	
					-			+	
D. C. N.	D N	D + N + A D +			1			4-	·
Ref. No.	Part No.	Part Name & Description	Pc	Remarks			+	+	
	VEP63203A	TERMINAL BOX P. C. BOARD	١,	(RTL)	l			+	
	VET 03203A	TERMITAL BOX F. O. BOARD	├'	(KIL)				+-	
			H					1	
			\vdash					T	
			L		1	-		\perp	
			_					\perp	
	VEP63203A	TERMINAL ROY 2 2 22125	-	(DTL)	-		-	+	
	VEP03203A	TERMINAL BOX P. C. BOARD	1	(RTL)		-	-	+	
						-		+	
C43001. 02	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	2			1	+	+-	
		T. CAPACITOR CH 35V 3.3U	3					T	
		T. CAPACITOR CH6. 3V 22U	1			-		T	
C43007	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1					T	
C43008, 09	ECST1VX335Z	T. CAPACITOR CH 35V 3.3U	2						
		C. CAPACITOR CH 50V 4700P	2						***************************************
		C. CAPACITOR CH 16V 0.1U	2					╙	
	***	T. CAPACITOR CH6. 3V 47U	1					-	
C43015, 16	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	2		ļ	-		+	
D43001, 02	M43063	DIODE	2					╁	
	MA728	DIODE	1					┼╌	
		7.002				-		t	
FL43001	VLF1376A505	FILTER	1						
FL43002	VLF1393	FILTER	1					T	
FL43003	VLF1394	FILTER	1						
		FILTER	1						
		FILTER	1					╙	
FL43006	VLF1394	FILTER	1					-	
1043001	UPD4721GS	IC	1		-	-			
1043001	070472103	10	-1					\vdash	
JK43001	VJJ0570	JACK	1					\vdash	
	VJJ0567	JACK	<u> </u>					1	
	VJJ0552	JACK	1					T	
JK43004	VJJ0215	RCA PIN JACK	1						
JK43005	VJJ0531	HEADPHONE JACK	1						
		COIL 10UH	1						
L43002	VLQ0779K470	COIL 47UH	1						
D.10001	VJP3676	0011150707 (11115)	_					\vdash	
P43001	VJP3676	CONNECTOR (MALE) 36P	1					\vdash	
P43001-04	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4						
		M. RESISTOR CH 1/16W 56K	1		-			-	
		M. RESISTOR CH 1/16W 8.2K	1		—			┢	
		M. RESISTOR CH 1/16W 680	4	· · · · · · · · · · · · · · · · · · ·				\vdash	
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Panasonic